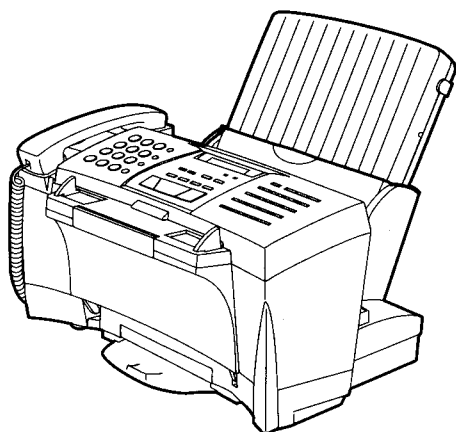


SHARP SERVICE MANUAL

No. 00ZU2700ITSME



FACSIMILE

MODEL UX-2700CM FO-2550CM

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PARTS GUIDE

Parts marked with "△" is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

CHAPTER 1. GENERAL DESCRIPTION

[1] Specifications

Printing specifications

Print cartridges	Colour: Sharp UX-27CC (UX-2700) FO-25CC (FO-2550) Black: Sharp UX-22BC (UX-2700) FO-21BC (FO-2550)
Print resolution	High: 600 x 600 dpi (both colour and black) Normal: 300 x 300 dpi
Print speed	Colour: 1 page per minute Black: Up to 3 pages per minute
Paper types	Index cards, envelopes, labels, transparencies, glossy film, greeting cards, iron-on transfers, plain, coated, and glossy paper.
Paper margins	Left/right: 3.4mm(A4 paper) Top: 5.5mm Bottom: 20.6mm

Fax specifications

Automatic dialling	Rapid Key Dialling: 38 numbers Speed Dialling: 61 numbers
Memory size*	512 KB (approx. 42 average pages in reception mode, 32 pages in transmission mode)
Automatic document feeder	20 sheets max.
Modem speed	14400 bps with automatic fallback to 12000, 9600, 7200, 4800, or 2400 bps
Transmission time*	Approx. 6 seconds (Sharp special mode)
Display	16-digit LCD display
Reception modes	FAX, TEL, TEL/FAX, S.T.
Resolution	Horizontal: 8 lines/mm Vertical: Standard: 3.85 lines/mm Fine /Halftone: 7.7 lines/mm Super fine (transmission only): 15.4 lines/mm
Halftone (greyscale)	64 levels

Applicable telephone line Public switched telephone network

Compatibility	ITU-T (CCITT) G3 mode
Configuration	Half-duplex, desktop transceiver
Compression scheme	MH, MR, MMR
Scanning method	Sheet-feeder CIS (Contact Image Sensor)
Effective printing width	203 mm max.
Paper margins	Top: 5.5 mm Bottom: 23.7 mm
Input document size	Automatic feeding: Width: 148 to 216 mm Length: 140 to 297 mm Manual feeding: Width: 148 to 216 mm Length: 140 to 1000 mm
Effective scanning width	210 mm max.
Contrast control	Automatic/Dark selectable

Copying specifications

Resolution	300 dpi
Multiple copies	Up to 99 (monochrome copying only)
Copy reduction/enlargement	Monochrome: 50%, 75%, 120%, 150% Colour: 50%, 70%, 80%, 90%, 200%

PC scanning specifications

Resolution	Enhanced 600 dpi
Scanning modes	Colour/monochrome/greyscale (64 levels)

General specifications

Power requirements	220-230 V AC, 50 Hz
Operating temperature	10 to 35°C
Operating humidity	30 - 80%RH
Power consumption	Stand-by: 7.0 W Maximum: 40 W
Dimensions	Width: 406 mm Depth: 306 mm Height: 255 mm (Without attachments)
Weight	Approx. 5.9 kg (Without attachments)

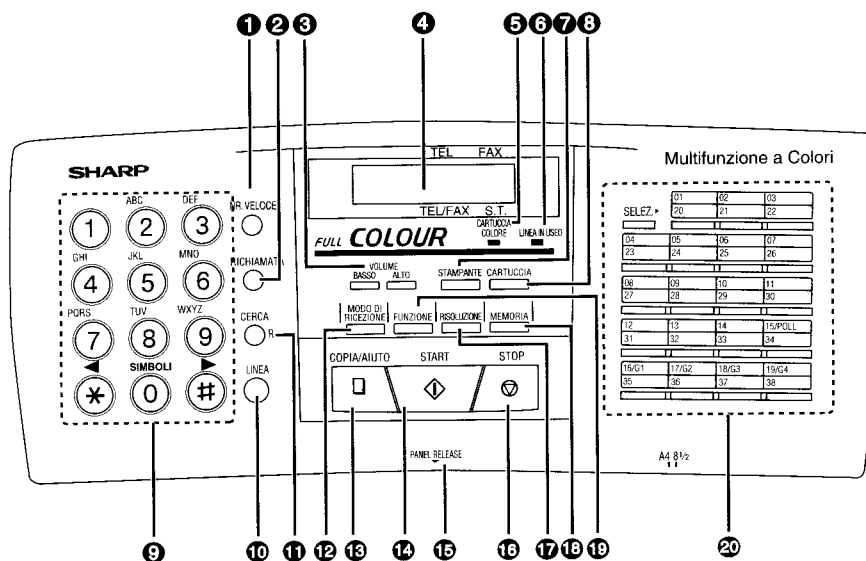
Note: The Sharp Colour MFP is Year 2000 compliant

* Based on ITU-T Test Chart #1 at standard resolution in Sharp special mode, excluding time for protocol signals (i.e., ITU-T phase C time only).

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

UX-2700CMIT
FO-2550CMIT

[2] Operation panel

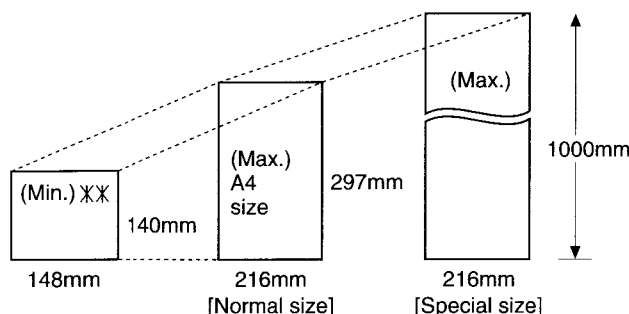


- 1 (NR.VELOCE) SPEED DIAL key**
Press this key to dial a 2-digit Speed Dial number.
- 2 (RICHIAMATA) REDIAL key**
Press this key to automatically redial the last number dialled.
- 3 VOLUME keys**
Press these keys to adjust the volume of the speaker when the **LINEA** key has been pressed, or the volume of the ringer at all other times.
- 4 Display**
This displays messages and prompts during operation and programming.
- 5 (CARTUCCIA COLORE) COLOUR CARTRIDGE light**
This lights when a colour print cartridge is installed. Faxes are received to memory when this light is on.
- 6 (LINEA IN USEO) LINE IN USE light**
This lights while the Sharp Colour MFP is using the telephone line.
- 7 (STAMPANTE) PRINTER key**
Press this key to eject paper from the machine, or reset the machine after clearing a paper jam or other printer error.
- 8 (CARTUCCIA) CARTRIDGE key**
Press this key to change a print cartridge or install a new print cartridge.
- 9 Number keys**
Use these keys to dial numbers, and enter numbers and letters during number/name storing procedures.
- 10 (LINEA) SPEAKER key**
Press this key to hear the line and fax tones through the speaker before sending a document, or dialling a voice number.
Note: This is not a speakerphone. You must pick up the handset to talk with the other party.
- 11 (CERCA/R) SEARCH/R key**
Press this key to search for an automatic dialling number, or, if you are on a P.B.X. extension, press this key to transfer or put the other party on hold.
- 12 (MODE DI RICEZIONE) RECEPTION MODE key**
Press this key to select the reception mode. An arrow in the display will point to the currently selected reception mode.
- 13 (COPIA/AIUTO) COPY/HELP key**
When a document is in the feeder, press this key to make a copy. At any other time, press this key to print out the Help List, a quick reference guide to the operation of your fax.
- 14 START key**
Press this key to send or receive a document manually when off hook.
- 15 PANEL RELEASE**
Pull this release up to open the operation panel.
- 16 STOP key**
Press this key to stop operations before they are completed.
- 17 (RISOLUZIONE) RESOLUTION key**
Press this key to adjust the resolution and contrast before sending or copying a document.
- 18 (MEMORIA) MEMORY key**
Press this key to scan a document into memory before transmitting it.
- 19 (FUNZIONE) FUNCTION key**
Press this key to select various special functions.
- 20 Rapid Dial Keys**
Press one of these keys to dial a fax or voice number automatically. To dial the bottom number on a Rapid Key, press the **SELEZ.** key before pressing the Rapid key. (Note that you must attach the Rapid Key labels.)

[3] Transmittable documents

1. Document Sizes

Normal size	width	148 – 216 mm
	length	140 – 297 mm



Use document carrier sheet for smaller documents.

- * With special sizes, only one sheet can be fed into the machine at a time. Insert next page into feeder as current page is being scanned.

2. Paper Thickness & Weight

Normal size	ADF 10 sheets	Thickness	0.06–0.12 mm
		Weight	52–104g/ m ² 14–28 lbs
	ADF 20 sheets	Thickness	0.06–0.09 mm
		Weight	52–74.3g/ m ² 14–20 lbs
Special size	Thickness		0.12–0.20 mm
	Weight		52–157g/ m ²

3. Document Types

- Normal paper
Documents handwritten in pencil (No. 2 lead or softer), fountain pen, ball-point pen, or felt-tipped pen can be transmitted.
Documents of normal contrast duplicated by a copying machine can also be transmitted.
- Diazo copy (blue print)
Diazo copy documents of a normal contrast may be transmitted.
- Carbon copy
A carbon copy may be transmitted if its contrast is normal.

4. Cautions on Transmitting Documents

- Documents written in yellow, greenish yellow, or light blue ink cannot be transmitted.
- Ink, glue, and correcting fluid on documents must be dry before the documents can be transmitted.
- All clips, staples and pins must be removed from documents before transmission.
- Patched (taped) documents should be copied first on a copier and then the copies used for transmission.
- All documents should be fanned before insertion into the feeder to prevent possible double feeds.

5. Automatic Document Feeder Capacity

Number of pages that can be placed into the feeder at anytime is as follows:

Normal size: max. ADF 20 sheets

Special size: single sheet only (manual feed)

- NOTES:
- When you need to send or copy more pages than the feeder limit, place additional pages in feeder when last page in feeder is being scanned.
 - Place additional pages carefully and gently in feeder.
If force is used, double-feeding or a document jam may result.

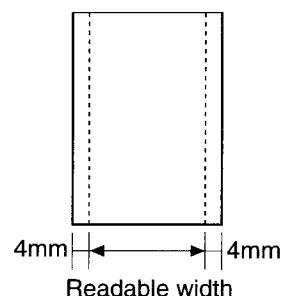
6. Readable Width & Length

The readable width and length of a document are slightly smaller than the actual document size.

Note that characters or graphics outside the effective document scanning range will not be read.

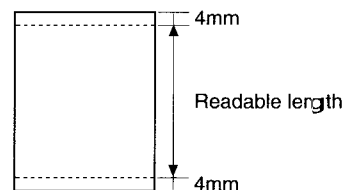
• Readable width

208mm,max.



• Readable length

This is the length of the document sent minus 4 mm from the top and bottom edges.

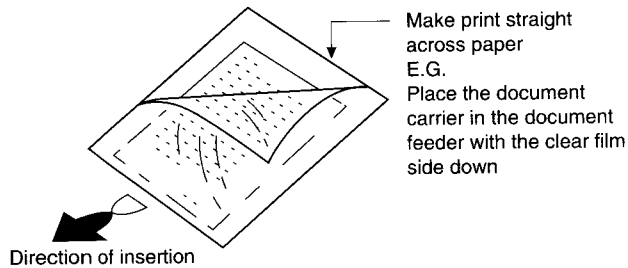


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7. Use of Document Carrier Sheet

A document carrier sheet must be used for the following documents.

- Those with tears.
- Those smaller than size 148 mm (W) x 140 mm (L).
- Carbon-backed documents



NOTE: To transmit a carbon-backed document, insert a white sheet of paper between the carbon back of the document and the document carrier.

- Those containing an easily separable writing substance (e.g., tracing paper written on with a soft, heavy lead pencil).

NOTES:

- When using the document carrier, carefully read the instructions written on the back.
- If the document carrier is dirty, clean it with a soft, moist cloth, and then dry it before using for transmission.
- Do not place more than one document in the carrier at a time.

[4] Installation

1. Site selection

Take the following points into consideration when selecting a site for this model.

ENVIRONMENT

- The machine must be installed on a level surface.
- Keep the machine away from air conditioners, heaters, direct sunlight, and dust.
- Provide easy access to the front, back, and sides of the machine. In particular, keep the area in front of the machine clear, or the original document may jam as it comes out after scanning.
- The temperature should be between 10° and 35°C.
- The humidity should be between 30% and 80% (without condensation).

ELECTRICITY

220-230 V AC, 50 Hz, earthed (2-prong) AC outlet is required.

Caution!

- Connection to a power source other than that specified will cause damage to the equipment and is not covered under the warranty.
- If your area experiences a high incidence of lightning or power surges, we recommend that you install a surge protector for the power and telephone lines. Surge protectors can be purchased at most telephone specialty stores.

If the machine is moved from a cold to a warm place...

If the machine is moved from a cold to a warm place, it is possible that the reading glass may fog up, preventing proper scanning of documents for transmission. To remove the fog, turn on the power and wait approximately 2 hours before using the machine.

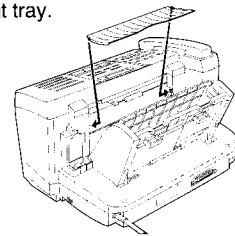
TELEPHONE JACK

A standard RJ11C telephone jack must be located near the machine. This is the telephone jack commonly used in most homes and offices.

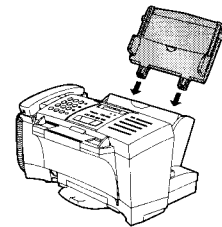
- Plugging the fax machine into a jack which is not an RJ11C jack may result in damage to the machine or your telephone system. If you do not know what kind of jack you have, or needed to have one installed, contact the telephone company.

2. Trays

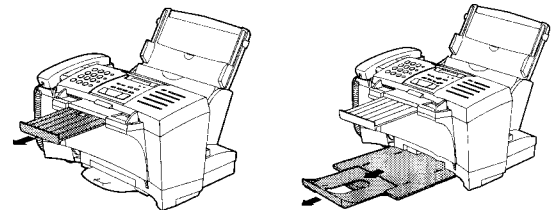
- ① Attach the document tray.



- ② Insert the paper tray into the back of the machine as shown.



- ③ Pull out the original document support and the output tray.



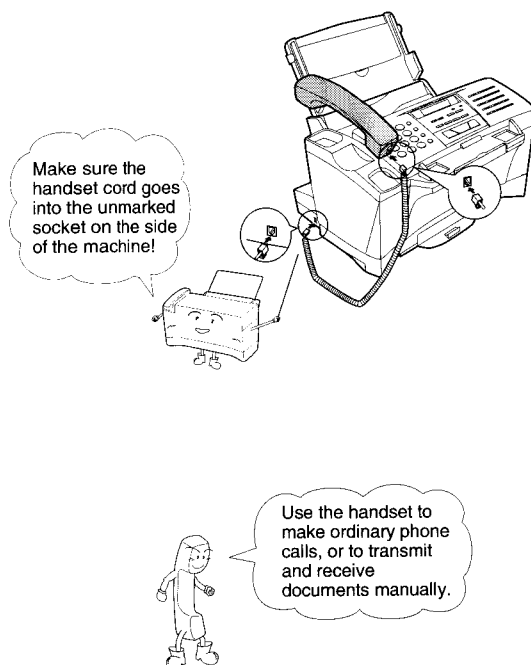
Note: When receiving faxes, copying or printing, do not let a large number of pages accumulate in the output tray. This may obstruct the outlet and cause paper jams.

3. Connections

① Handset

Connect the handset as shown and place it on the handset rest.

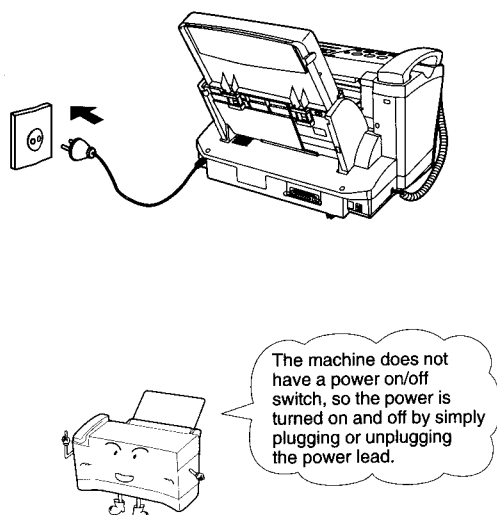
- ◆ The ends of the handset lead are identical, so they will go into either socket.



② Power lead

Plug the power lead into a 220-230 V, 50 Hz, earthed (2-prong) AC outlet.

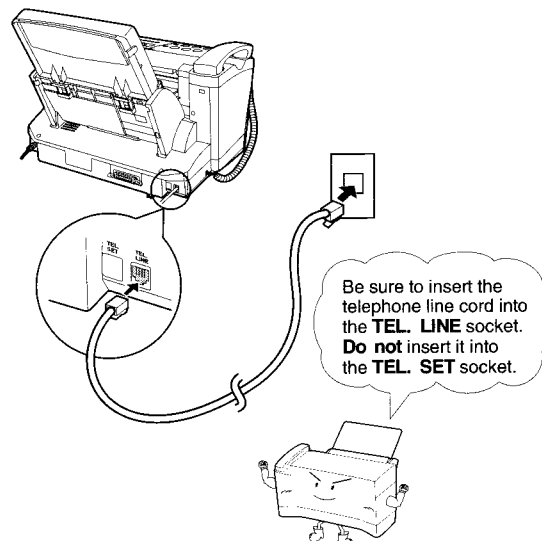
- ◆ **Caution:** The mains outlet(socket outlet) should be installed near the equipment and be easily accessible.



③ Telephone line cord

Insert one end of the line cord into the socket on the back of the machine marked **TEL. LINE**.

Insert the other end into a wall telephone socket.



Comments:

- If your area experiences a high incidence of lightning or power surges, we recommend that you install surge protectors for the power and telephone lines. Surge protectors can be purchased from your dealer or at most telephone specialty stores.

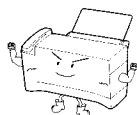
UX-2700CMIT
FO-2550CMIT

4. Installing a Print Cartridge

Your Sharp Colour MFP uses either a **UX-27CC (FO-25CC)** colour print cartridge or a **UX-22BC (FO-21BC)** black print cartridge.

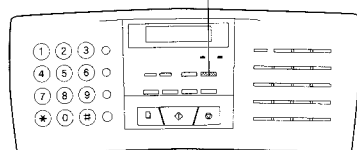


We recommend that you keep a black cartridge installed for normal use, and change to a colour cartridge only when you need to print a colour job.



Note: If you receive a fax when a colour print cartridge is installed, the fax will be held in memory and printed out when a black cartridge is installed.

CARTUCCIA key

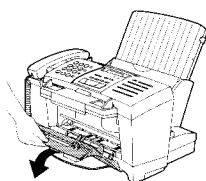


- ① Press the **CARTUCCIA** key.



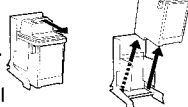
- The cartridge carrier will move to the center of the print compartment.

- ② Open the front cover of the Sharp Colour MFP.

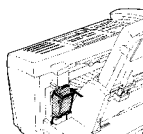


Note on changing cartridges:

When you need to change a print cartridge, remove the currently installed cartridge after Step 2 above. Remove the cartridge by pulling the knob on the cartridge toward you until you hear a click.

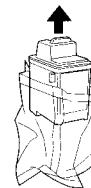


If the cartridge is still useable, insert it into the cartridge holder on the back of the machine. Push back on the cartridge until it clicks into place.

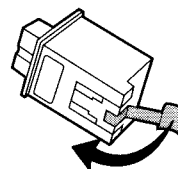


- To prevent the used print cartridge from drying out, be sure to store it in the cartridge holder.

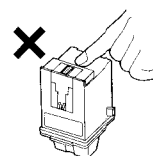
- ③ Remove the new print cartridge from its packaging.



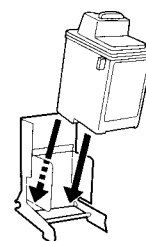
- ④ Gently remove the sticker and transparent tape covering the copper printhead.



Do not touch the copper-coloured area!

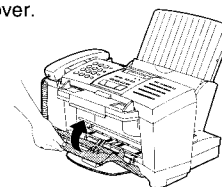


- ⑤ Insert the print cartridge into the cartridge carrier. Push back on the cartridge until it clicks into place.



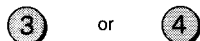
Note: If the print cartridge moves loosely in the carrier, it is not locked into place. Repeat this step.

- ⑥ Close the front cover.



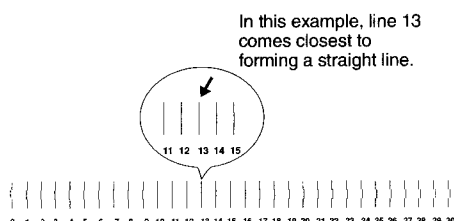
- ⑦ Press the **3** key if you installed a new black cartridge, or the **4** key if you installed a new colour cartridge.
(When installing a previously used cartridge, press the **1** key for an old black cartridge or the **2** key for an old colour cartridge.)

NEW BLACK CART. NEW COLOUR CART.



- The cartridge will return to its home position. If you pressed **3** or **4** for a new cartridge, the Sharp MFP will print a test page for printhead alignment.

- ⑧ If you installed a new print cartridge, look at the test page and locate the line that comes closest to forming a perfectly straight line.



- ⑨ Press these keys on the Sharp MFP:



The display will show:

ALIGN CARTRIDGE
ENTER (00-30) 15
START: PRINT

- ⑩ Enter the two-digit number of the straightest line on the test page. (If the number is less than 10, enter a 0 before the number.)

Example: Line 13 ① ③

The display will show:

CLEAN NOZZLES

- ⑪ Press the **STOP** key to return to the time and date display.



Note: If you have installed a colour cartridge, the display will show the following alternating messages:

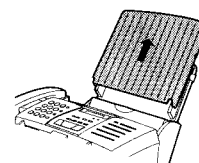
COL CARTRIDGE
USE BLACK FOR RX

5. Loading Printing Paper

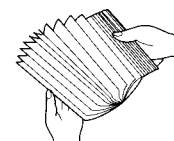
You can load A4 size paper in the paper tray. The maximum number of sheets is:

- ♦ **200** for paper from 60 to 80 g/m².
- ♦ **150** for paper from 80 to 90 g/m². (such as coated paper)

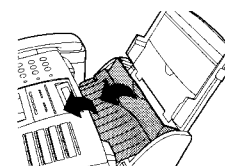
- ① Remove the paper cover if it is on the paper tray.



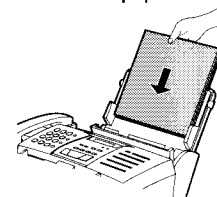
- ② Fan the paper, and then tap the edge against a flat surface to even the stack.



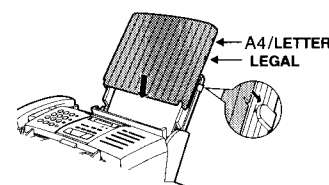
- ③ Pull the paper release plate toward you.



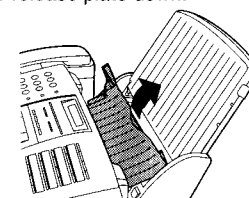
- ④ Insert the stack of paper into the tray, **print side up**
- If paper remains in the tray, take it out and combine it into a single stack with the new paper before adding the new paper.



- ⑤ Replace the paper cover on the paper tray.



- ⑥ Push the paper release plate back down.
- **Important :** Be sure to replace the paper cover **before** you push the paper release plate down.



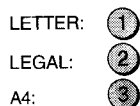
UX-2700CMIT FO-2550CMIT

- ⑦ The Sharp Colour MFP has been set at the factory to scale the size of received faxes to A4 size paper. If you need to change the paper size setting, press these keys:



The display will show: **PAPER SIZE**

Press 1 to select LETTER, 2 to select LEGAL, or 3 to select A4.



Press the **STOP** key to return to the date and time display.



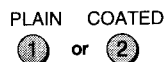
Note: This setting is only for received faxes. To set the paper size for printing from your computer, see your online Operation Guide.

- ⑧ The Sharp Colour MFP has been set at the factory to print on plain paper. If you have loaded coated paper, you must change the media type setting to COATED. Press these keys:



The display will show: **MEDIA TYPE**

Press 1 to select PLAIN or 2 to select COATED.



Press the **STOP** key to return to the date and time display.



6. Clearing Paper Jams

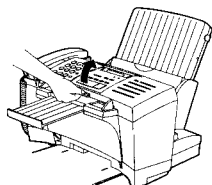
Clearing a jammed document

If the original document doesn't feed properly during transmission or copying, or DOCUMENT JAMMED appears in the display, first try pressing the **START** key. If it doesn't feed out, remove it as follows:

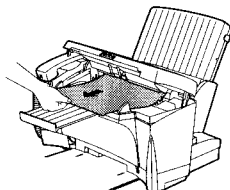
Important:

Do not try to remove a document without opening the operation panel. This may damage the feeder mechanism.

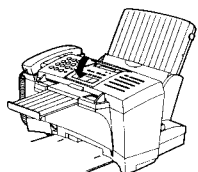
- ① Pull the release marked **PANEL RELEASE** up and open the operation panel.



- ② Remove the document.

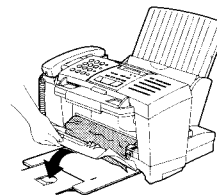


- ③ Close the operation panel, making sure it clicks into place.

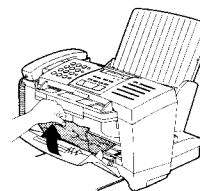


Clearing jammed printing paper

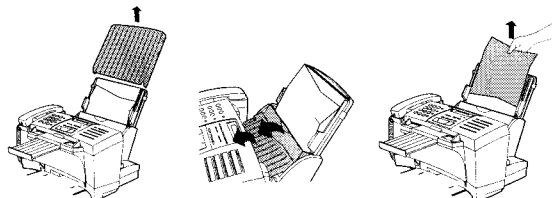
- ① Open the front cover of the Sharp MFP.



- ② Grasp the leading edge of the jammed paper and pull it out of the machine.

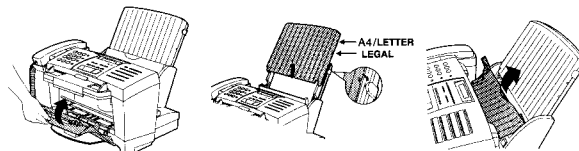


- ③ If it is too difficult to pull the jammed paper out from the front of the machine, remove the paper tray cover, pull the paper release plate toward you, and pull the jammed paper out from the back of the machine.



- ④ Make sure there are no torn pieces of paper remaining in the machine.

- ⑤ Close the front cover. Replace the paper tray cover (if removed), and then press the paper release plate back down.

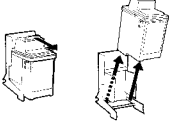
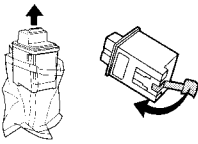
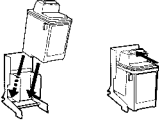


- ⑥ Press the **STAMPANTE** key to reset the Sharp MFP.



[5] Quick reference guide

CHANGING PRINT CARTRIDGES

1. Press: **CARTUCCIA** 
2. Open the front cover of the Sharp Colour MFP. 
3. Remove the current print cartridge.
 - If the cartridge is still useable, insert it in the holder on the back of the machine. Push back on the cartridge until it clicks into place. 
4. If you are installing a new print cartridge, remove the cartridge from its packaging. Remove the sticker and tape from the cartridge. 
5. Insert the print cartridge into the cartridge carrier. Push back until it clicks into place. 
6. Close the front cover.
7. Enter a number to set the cartridge type:
 - 1: Old black cartridge
 - 2: Old colour cartridge
 - 3: New black cartridge
 - 4: New colour cartridge
 - If you pressed 3 or 4 for a new cartridge, the Sharp MFP will print a test page for printhead alignment.
8. If you installed a new print cartridge, press:

FUNZIONE








Display shows:

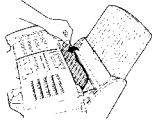
ALIGN CARTRIDGE
9. Enter the two-digit number of the straightest line on the test page.
10. Press: 

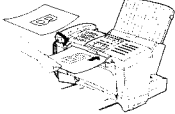
MAKING COPIES

1. If you are copying onto a transparency or special paper, flip up the document tray and insert the media into the manual paper feeder. Make sure the display shows:

CHECK MAN FEEDER

USE AUTO FOR RX



2. Place the document (up to 20 pages) face down in the document feeder. 
3. Press: 
4. Press 1 to use the preset copy settings, or 2 (MANU) to select each setting individually.
5. If you are making one copy per original, press the **START** key. If you are making multiple copies per original, enter the number of copies per original (if the number is less than 10, enter a "0" before the number).
 - If you selected PRESET in Step 4, go to Step 10.
6. Enter a number for the size of the printing media:
 - 1: LETTER
 - 2: LEGAL
 - 3: A4
7. Enter a number to select reduction/enlargement.
 - 1: AUTO (automatic size adjustment to match the size of the media)
 - 2: 50%
 - 3: 75%
 - 4: 100% (no reduction or enlargement)
 - 5: 120%
 - 6: 150%
8. Select the type of media to be used:
 - 1: PLAIN PAPER
 - 2: COATED PAPER
 - 3: TRANSPARENCY
 - 4: GLOSSY PAPER
 (Note: The TRANSPARENCY and GLOSSY PAPER selections only appears if you inserted a sheet of media in the manual feeder.)
9. Select the copy print quality. Press 1 for NORMAL or 2 for DRAFT.
10. If desired, press the **RISOLUZIONE** key to adjust the resolution and/or contrast (the default settings are FINE and AUTO).
11. Press **START** to begin copying. 

STORING AND CLEARING NUMBERS FOR AUTO DIALING

1. Press: **FUNZIONE** **3** **#**

Display shows: **FAX/TEL # MODE**

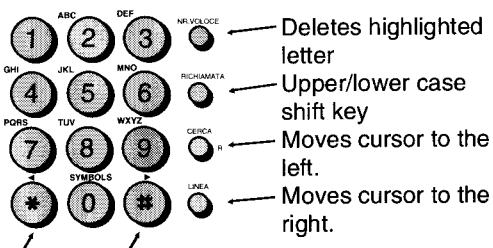
- Press **1** to store a number or **2** to clear a number.
- Enter a 2-digit Speed Dial number (from 01 to 38 for Rapid Key Dialing, or 39 to 99 for Speed Dialing). (If you are clearing a number, go to Step 7.)
- Enter the full telephone/fax number.

5. Press: **START**

- Enter the name of the location by pressing number keys as shown below (max. of 20 characters).

- To enter two letters in succession that require the same key, press the **LINEA** key after entering the first letter.

A = 2 2	J = 5 5	T = 8 8
B = 2 2 2	K = 5 5 5	U = 8 8 8
C = 2 2 2 2	L = 5 5 5 5	V = 8 8 8 8
D = 3 3	M = 6 6	W = 9 9
E = 3 3 3	N = 6 6 6	X = 9 9 9
F = 3 3 3 3	O = 6 6 6 6	Y = 9 9 9 9
G = 4 4	P = 7 7	Z = 9 9 9 9 9
H = 4 4 4	Q = 7 7 7	SPACE = 1 1
I = 4 4 4 4	R = 7 7 7 7	
	S = 7 7 7 7 7	

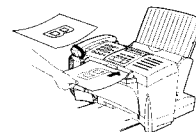


Press either key one or more times to select and enter a symbol.

7. Press: **START** **STOP**

SENDING DOCUMENTS

Place the document (up to 20 pages) face down in the document feeder.



Normal Dialling

- Lift the handset or press **LINEA**
- Dial the fax number.
- Wait for the reception tone (if a person answers, ask them to press their Start key).
- Press: **START**

Rapid Key Dialling

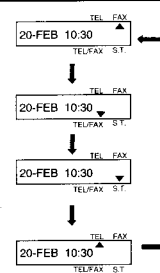
Press the appropriate Rapid Key (if the Rapid Key is from 20 to 38, press the **SELEZ.** key first). Transmission will begin automatically.

Speed Dialling

- Press: **NR.VELOCE**
- Enter 2-digit Speed Dial number.
- Press: **START**

RECEIVING DOCUMENTS

Press: **MODE DI RICEZIONE**

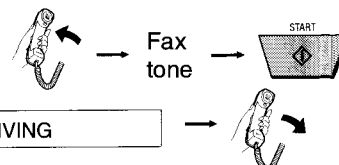


FAX mode: The Colour MFP automatically answers on 2 rings and receives the incoming document.

TEL/FAX mode: The Colour MFP automatically answers and receives faxes. Voice calls are signalled by a special ringing sound.

S.T. mode: Select this mode when you turn on an answering machine connected to the Colour MFP.

TEL mode:



Selecting the receiving unit

- Press: **FUNZIONE** **#**
- Press **1** for fax reception to the Colour MFP, or **2** for fax reception to your computer.

CHAPTER 2. ADJUSTMENTS

[1] Adjustments

General

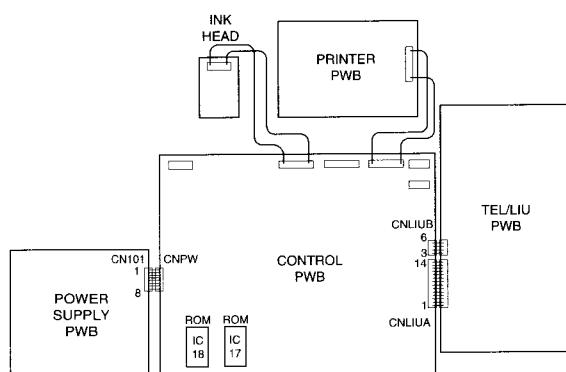
Since the following adjustments and settings are provided for this model, make adjustments and/or setup as necessary.

1. Adjustments

Adjustments of output voltage (FACTORY ONLY)

1. Install the power supply unit in the machine.
2. Set the recording paper and document.
3. When the document is loaded, power is supplied to the output lines. Confirm that outputs are within the limits below.

Output voltage settings



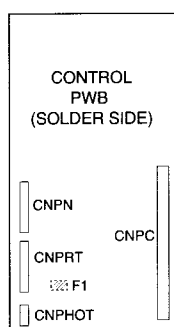
Output	Voltage limits
+5V	4.75V ~ 5.25V
V-REG	5.5V ~ 7.0V
+24V	23.52V ~ 24.48V

Connector No.	CNPW
Pin No.	
1	MG
2	MG
3	+24V
4	+24V
5	DG
6	+5V
7	DG
8	VREG

2. IC protectors replacement

ICPs (IC Protectors) are installed to protect the motor driver circuit. ICPs protect various ICs and electronic circuits from an overcurrent condition.

The location of ICPs are shown below:



- (1) F1 (ICP-S07) is installed in order to protect IC's from an over-current generated in the motor drive circuit. If F1 is open, replace it with a new one.

3. Settings

(1) Dial mode selector

DIAL mode (Soft Switch No. SW2 DATA No. 1)

(step 1) Select "OPTION SETTING".

KEY: **FUNZIONE** **4**

DISPLAY: **IMPOSTAZ.OPZIONI** ↔ **PREMERE X O #**

(step 2) Select "DIAL MODE".

KEY: **# # # # # #**

DISPLAY: **MODO CHIAMATA** ↔ **1=TONO, 2=PULSATO**

Cursor
When initially registering,
the mode shows 1=TONE.
When registering again, the
mode which was registered
formerly is shown.

(step 3) Select, using "1" or "2".

KEY: **1**

DISPLAY: **IMPOSTATO TONALE**

KEY: **2**

DISPLAY: **IMPOST. PULSATO**

(step 4) End, using the "STOP" key.

KEY: **STOP**

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[2] Diagnostics and service soft switch

1. Operating procedure

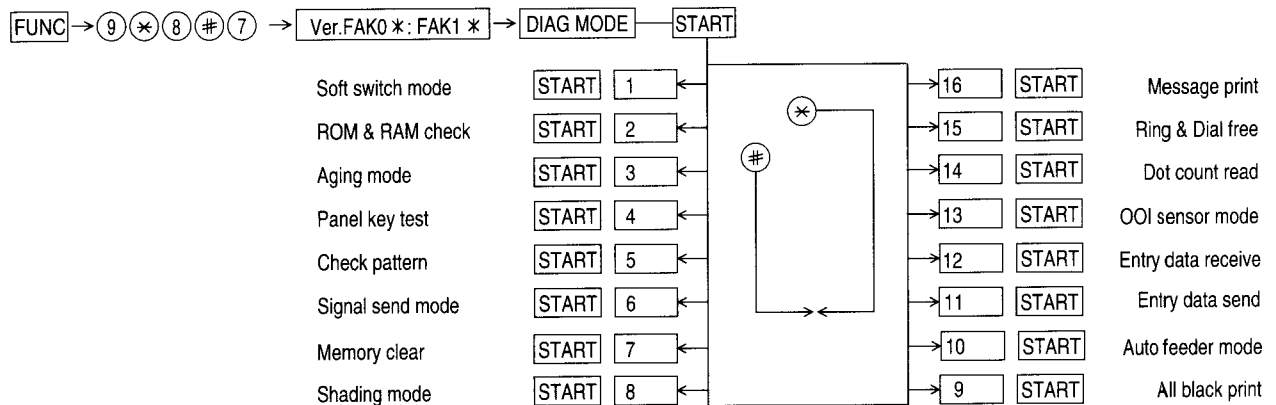
(1) Entering the diagnostic mode

Press **FUNC** → **9** → **✕** → **8** → **#** → **7**, and the following display will appear.

ROM Ver. FAK0 ✕: FAK1 ✕ After 2 sec: **DIAG MODE**

FAK0 ✕: FAK1 ✕

Then press the **START** key and country name selected will appear for 2 seconds. Select the desired item with the **✕** key or the **#** key or select with the rapid key. Enter the mode with the **START** key. (Diag•specifications)



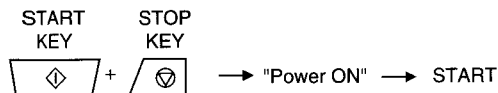
If the dial mode cannot be set, repeat the dial mode operation, performing the following operation.

Memory clear when power is turned on

Pressing the **START** and **STOP** keys, turn on the main power, and the following message will be displayed.

MEMORY CLEAR ?

Press the **START** key when "MEMORY CLEAR?" appears.



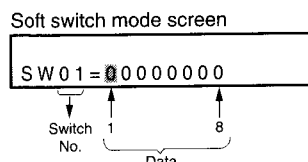
2. Diagnostic items

ITEM No.	DIRECT key	Contents	Function
1	1	SOFT SWITCH MODE	Soft switches are displayed and changed. List can be output.
2	2	ROM & RAM CHECK	ROM is sum-checked, and RAM is matched. Result list is output.
3	3	AGING MODE	10 sheets of check patterns are output every 5 minutes per sheet.
4	4	PANEL KEY TEST	Panel keys are tested.
5	5	CHECK PATTERN	Check pattern is output.
6	6	SIGNAL SEND MODE	Various signals of FAX communication are output.
7	7	MEMORY CLEAR	Back-up memory is cleared, and is set at delivery.
8	8	SHADING MODE	Store the shading waveform according to the specified shading document.
9	9	ALL BLACK PRINT	To check the print head, whole dots are printed over the interval of 2 m.
10	10	AUTO FEEDER MODE	Insertion and discharge of document are tested.
11	11	ENTRY DATA SEND	Registered content is sent.
12	12	ENTRY DATA RECEIVE	Registered content is received and its list is output.
13	13	OOI SENSOR MODE	Check whether the ink sensor can detect nonexistence of ink correctly.
14	14	DOT COUNT READ	Check the ink consumption count value.
15	15	RING & DIAL FREE	Eliminates dial tone detection in auto dial.
16	16	MESSAGE PRINT	The display message of each language is printed out together.

3. Diagnostic items description

3. 1. Soft switch mode

In this mode, the soft switch are set and the soft switch list is printed.
Soft switch mode screen.



① Switch number selection

- Press START key for setting of the next soft switch. If the soft switch number is the final, pressing START key will exit the soft switch mode.
- Enter two digits of a soft switch number to set the switch number. If a switch number of unexisting soft switch is entered, key error buzzer sounds to reject the input.

SOFT SWITCH MODE SW01=00000000	SOFT SWITCH MODE SW1#	SOFT SWITCH MODE SW16=00010110
-----------------------------------	--------------------------	-----------------------------------

② Data number selection

The cursor position shows the data to be set.
Pressing # key moves the cursor to the right. If, however, the cursor is on data number 8, pressing # key shifts the cursor to data number 1 of the next switch number. If the switch number is the final, pressing # key will exit the soft switch mode.
Pressing < key moves the cursor to the left. If, however, the cursor is on data number 1, pressing < key shifts the cursor to data number 8 of the former switch number. If the switch number is 1, pressing < key will not move the cursor.

③ Data setting method

Press the FUNCTION key, and the data at the position of the cursor will be reversed to 0 when it is 1, or to 1 when it is 0.

④ Outputting method of soft switch list

In the soft switch mode, press the COPY/HELP key, and the soft switch list will be output.
If the recording paper runs out or is clogged, and check ROM & RAM.

⑤ Storage of data

- In the following case, the data of the soft switches set will be stored.
- It is shifted to set the next soft switch by pressing the START key.
 - It is shifted to set the next soft switch with the # key
 - It is shifted to set the last soft switch with the < key
 - It is shifted to set another soft switch by inputting two digits at the switch number. (When 2 digits are completely input.)

3. 2. ROM & RAM check

ROM executes the sum check, and RAM executes the matching test. The result will be notified with the number of short sounds of the buzzer as well as by printing the ROM & RAM check list.
If error does not occur, the buzzer does not sound.
(As for the print format refer to the list function specification.)

No.	Check device	Number of short sounds of buzzer
1	MAIN ROM1	1
2	MAIN ROM2	2
3	CPU ROM/RAM	3
4	S-RAM	4
5	D-RAM	5

The once buzzer sounding pattern is 0.25 sec. ON / 0.25 sec. OFF.

3. 3. Aging mode

If any document is first present, copying will be executed sheet by sheet. If no document is present, the check pattern will be printed sheet by sheet. This operation will be executed at a rate of one sheet per 5 minutes, and will be ended at a total of 10 sheets.

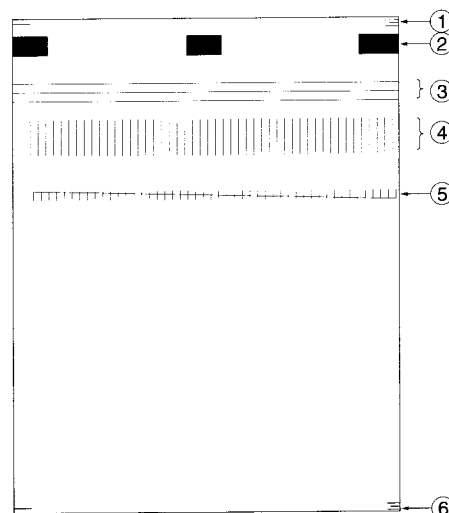
3. 4. Panel key test

The mode is used to check whether each key properly operates or not. Since the key is displayed on LCD when the key on the operation panel is pressed, press all the keys. Here, finally press STOP key. When STOP key is pressed, the keys not judged as "pressed" are output in the result list. Here, two LED ports can be turned on alternately during the time from the start of the panel check mode to the end with the stop key.

3. 5. Check pattern

The mode is used to check the state of the printing head. It is ended with the following pattern printed on one printing sheet.

- Top skew
- Black print
- Horizontal lines
- Vertical lines
- Nozzle test (check of printer)
- Bottom skew



3. 6. Signal send mode

The mode is used to send various signals to the circuit during FAX communication. Every push of START key sends a signal in the following sequence. Moreover, the signal sound is also output to the speaker when the line monitor of the soft switch is on.

- No signal (CML signal turned on)
- 14400BPS (V.33)
- 12000BPS (V.33)
- 14400BPS (V.17)
- 12000BPS (V.17)
- 9600BPS (V.17)
- 7200BPS (V.17)
- 9600BPS (V.29)
- 7200BPS (V.29)
- 4800BPS (V27ter)
- 2400BPS (V27ter)
- 300BPS (FLA5)
- 2100Hz (CED)
- 1100Hz (CNG)
- PSEUDO RINGING

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3. 7. Memory clear

This mode is used to clear the backup memory and reset to the default settings.

3. 8. Shading mode

This mode is used to store the shading waveform according to the specified shading document.

3. 9. All black print

This mode is used to check the state of the printing head and intentionally overheat it. Press STOP key for the end.

3. 10. Auto feeder mode

This mode is used to check the auto feed function by inserting and discharging the document. In this mode, the feed of the document will be automatically tested if the document is set. Moreover, the number of fed documents will be counted and be displayed on LCD.

3. 11. Entry data send

This mode is used to send the registered data to the remote machine and make the remote machine copy the registered information. When this mode is used for sending, the remote machine must be set to the entry data receive mode.

This information to be sent is as follows.

1. TELEPHONE NUMBER LIST
2. PASSCODE LIST
3. OPTION LIST
4. ANTI JUNK LIST
5. GROUP LIST
6. PRINT SET UP LIST
7. SOFT SW LIST

3. 12. Entry data receive

This mode is used to receive the registered data which is sent from the remote machine and to register the received data in the machine. When this mode is used to receive the information, the remote machine must be set to the entry data send mode

The information to be sent is as follows.

1. TELEPHONE NUMBER LIST
2. PASSCODE LIST
3. OPTION LIST
4. ANTI JUNK LIST
5. GROUP LIST
6. PRINT SET UP LIST
7. SOFT SW LIST

3. 13. OOI sensor mode

This mode is used to check whether the ink sensor can detect nonexistence of ink correctly.

3. 14. Dot count read

The black, cyan, magenta and yellow ink consumption counter value is indicated.

3. 15. Ring & Dial free

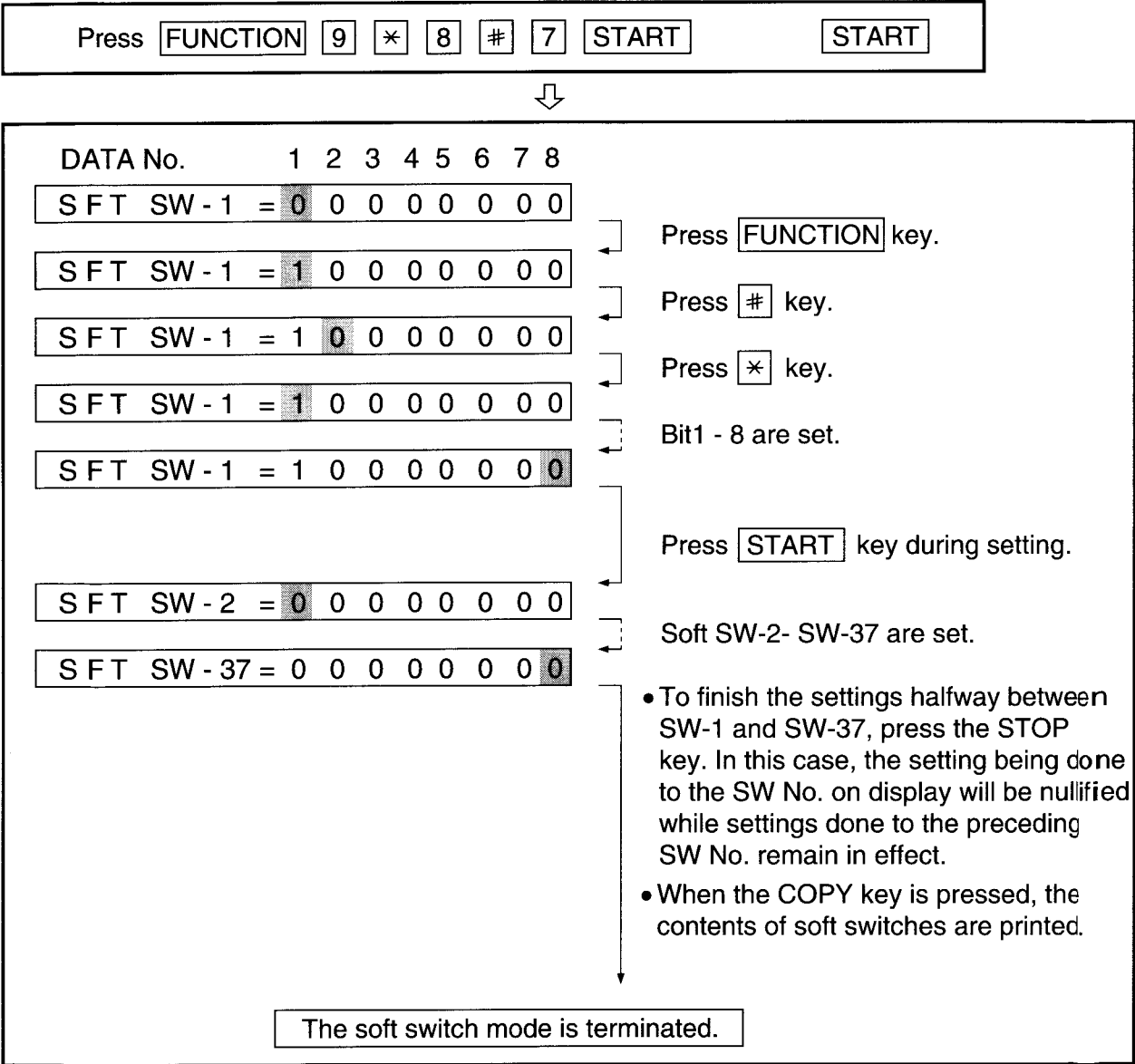
Used to reject dial tone check while autodialing is carried out. And used to change the bottom Ring frequency of auto-receiving to 13Hz.

3. 16. Message print

Used to print the displayed message of communication for translate each language.

4. How to make soft switch setting

To enter the soft switch mode, make the following key entries in sequence.



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5. Soft switch description

• Soft switch

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks		
			1		0						
SW I 1	1	Reserved	—		—			0			
	2	Reserved	—		—			0			
	3	Reserved	—		—			0			
	4	Reserved	—		—			0			
	5	Recall times	Binary input 8 4 2 1 No. = 5 6 7 8 0 0 1 0 (Twice)					0			
	6							0			
	7							1			
	8							0			
SW I 2	1	Dial mode	Pulse		Tone			1	OPTION		
	2	Reception mode	Auto		Manual			1	Recep key		
	3	ECM mode	No		Yes			0	OPTION		
	4	CNG detection in Standby mode	No		Yes			0			
	5	Polling Security	On		Off			0	FUNC+3		
	6	Automatic Cover Sheet	No		Yes			1	OPTION		
	7	Junk fax function in manual reception	Yes		No			0			
	8	Anti Junk fax function	Yes		No			0	OPTION		
SW I 3	1	Number of rings for auto receive	Binary input 8 4 2 1 No. = 1 2 3 4 0 0 1 0 (1 time)					0	OPTION (2-5)		
	2							0			
	3							1			
	4							0			
	5	Automatic switching manual to auto receive mode (0:OFF)	Binary input 8 4 2 1 No. = 5 6 7 8 0 0 0 0 (Off)					0			
	6							0			
	7							0			
	8							0			
SW I 4	1	Communication results printout (Transaction report)		Error	Err/Tmr/Mem	Send only	No print	Always	0	OPTION	
	2		No.1	0	0	0	1	1			0
	3		No.2	0	0	1	0	1			0
	3		No.3	1	0	0	0	0			1
	4	Reserved	—			—			0		
	5	Reserved	—			—			0		
	6	Reserved	—			—			0		
	7	Number of CNG detect (STAND-BY mode)			1pulse	2pulses	3pulses	4pulses	0		
8	No.7		0	0	1	0	1				
SW I 5	1	Reserved	—			—			1		
	2	Date format	Month-Day-Year			Day-Month-Year			0		
	3	Sender's information transmit	Off			On			0		
	4	Footer Print	On			Off			0		
	5	Reserved	—			—			0		
	6	Substitute reception	Off			On			0		
	7	Substitute reception conditions	Reception disable without TSI			Reception enable without TSI			0		
	8	CSI transmission	Off			On			0		

SW NO.	DATA NO.	ITEM	Switch setting and function							Initial setting	Remarks			
			1				0							
SW I 6	1	H2 mode	No				Yes			0				
	2	MH fixed	Yes				No (depend on remote machine)			0				
	3	Reserved	—				—			0				
	4	Reserved	—				—			0				
	5 6 7 8	Modem speed (DCS data reception speed)							V.33 14400 12000					
			No.5						0	0				
			No.6						1	1				
			No.7						0	1				
	5 6 7 8			V.17 14400 12000 9600 7200				V.29 9600 7200		V.27ter 4800 2400				
			No.5	1	1	1	1	0	0	0	0	1		
			No.6	0	0	0	0	0	0	0	0	0		
			No.7	0	1	0	1	0	1	1	0	0		
5 6 7 8		No.8	0	0	1	1	1	1	0	0	0			
SW I 7	1 2	Reception speed fixed			NO		V.17- 14400PS		V.29- 9600BPS		V.27ter- 4800BPS		0	When 14400BPS modem used, setting to 14400bps is ignored.
			No.1		0		1		0		1			
			No.2		0		1		1		0			
	3	DIS receive acknowledgement during G3 transmission	Twice					0					0	
	4	Non modulated carrier for V29 transmission	On					Off					0	
	5	EOL detect timer	25sec					13sec					0	
	6	Protocol monitor	On					Off					0	
	7	Line monitor	On					Off					0	
8	Length limitation of copy/send/receive	No limit					Copy/Send:1m Receive:1.5m					0		
SW I 8	1 2	Digital line equalization setting (Reception)			0Km		1.8Km		3.6Km		7.2Km		0	
			No.1		0		0		1		1			
			No.2		0		1		0		1			
	3	Dial pausing (sec/pause)	2sec					4sec					0	
	4	Signal transmission level	Binary input 16 8 4 2 1 No. = 4 5 6 7 8 0 1 0 1 1 (-11dBm)										0	
	5												1	
	6												0	
	7												1	
8												1		
SW I 9	1 2	CED tone signal interval			75ms		500ms		750ms		1000ms		0	
			No.1		0		0		1		1			
			No.2		0		1		0		1			
	3	Equalizer freeze control(MODEM)	On					Off					0	
	4	Equalizer freeze conditions	All					7200bps					0	
	5	CED detection time	500ms					1000ms					0	
	6	Reserved	—					—					0	
	7	Reserved	—					—					0	
8	Reserved	—					—					0		
SW I 10	1	Reserved	—					—					0	
	2	Reserved	—					—					0	
	3	Reserved	—					—					0	
	4	Reserved	—					—					0	
	5	Reserved	—					—					0	
	6	Reserved	—					—					0	
	7	Reserved	—					—					0	
	8	Reserved	—					—					0	

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SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1		0				
SW I 11		End buzzer			1sec	No BEEP	No BEEP		
	1		No.1		0	1	1	0	
	2		No.2		1	0	1	1	
	3	Communication error treatment in RTN sending mode (reception)	No communication error		Communication error			0	
	4	CNG transmission after auto dialing	No		Yes			0	
	5	Error criterion	10~20%		5~10%			0	
	6	Pulse to Tone change by $\times$ key	On		Off			1	
	7	CNG transmission in manual trasmission	No		Yes			0	
	8	Reserved	—		—			0	
SW I 12	1	DTMF signal transmission level (Low)	Binary input 16 8 4 2 1 No. = 1 2 3 4 5 0 1 1 0 1 (−13.0dBm)					0	
	2							1	
	3							1	
	4							0	
	5							1	
	6	not used	—		—			0	
	7	not used	—		—			0	
	8	not used	—		—			0	
SW I 13	1	DTMF signal transmission level (High)	Binary input 16 8 4 2 1 No. = 1 2 3 4 5 0 1 0 1 0 (−11.5dBm)					0	
	2							1	
	3							0	
	4							1	
	5							0	
	6	not used	—		—			0	
	7	not used	—		—			0	
	8	not used	—		—			0	
SW I 14	1	PBX connection	Yes		No			0	OPTION
	2	PBX select		ID	ID	Earth	Flash	0	OPTION
	3		No.2	0	0	1	1		
	4	PBX recall function (R key select)	No.3	0	1	0	1	1	OPTION
	5		No.4	0	0	1	1		
	6	Dial tone detection (before auto dial)	No		Yes			1	
	7	Reserved	—		—			0	
	8	Busy tone detection (after auto dial)	No		Yes			0	
SW I 15	1	Waiting time after dialing	90sec		45sec			0	
	2	Reserved	—		—			0	
	3	Reserved	—		—			0	
	4	Reserved	—		—			0	
	5	CI detection	13Hz or more		As is PTT			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	
SW I 16	1	Special sending mode	On		Off			1	
	2	DTC interval		3.1sec	2.0sec	2.1sec	1.0sec	0	
	3		No.2	0	0	1	1		
	4	Reserved	No.3	0	1	0	1	0	
	5	E indication when RTN sending/receiving	On		Off			1	
	6	Reserved	—		—			0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	

SW NO.	DATA NO.	ITEM	Switch setting and function						Initial setting	Remarks		
			1			0						
SW 17	1	Speaker volume (3stages)			High	High	Middle	Low	1			
	2		NO.1	0	0	1	1	0				
	NO.2		0	1	0	1						
	3	Reserved	—			—			1			
	4	Reserved	—			—			0			
	5	Ringer volume (4stages)			Off	High	Middle	Low	1			
	6		NO.5	0	0	1	1	0				
	NO.6		0	1	0	1						
7	Reserved	—			—			0				
8	Reserved	—			—			0				
SW 18	1	PC I/F mode	Yes			No			1	FUNC+#		
	2	Auto reception in PC I/F mode	FAX			PC			1			
	3	Summer time setting	No			Yes			0			
	4	Sender's phone number setting	Cannot change			Change allowed			0			
	5	Polling key	Yes			No			0		OPTION	
	6	Activity report print	Automatic printout			No printout when memory full			0		OPTION	
	7	Total communication hours and pages print	Off			On			0			
	8	Line density selection	Fine			Standard			0		OPTION	
SW 19	1	Density adjustment (when Fine/STD mode)			Normal	Faint	Deep	Deep(when dark mode)		0		
	2		No.1	0	0	1	1		0			
	No.2		0	1	0	1						
	3	Density adjustment (when Half-tone mode)			Normal	Faint	Deep	Deep(when dark mode)		0		
	4		No.3	0	0	1	1		0			
	No.4		0	1	0	1						
	5	Reserved	—			—			0			
	6	Copy ratio for color copy			50%	70%	80%	90%	200%	100%		0
7	No.6		0	0	1	1	0	0	1	1	0	
No.7	0		1	0	0	1	0	1	1			
8		No.8	0	1	0	1	0	1	0	0	1	
SW 20	1	Paper set size			Letter	Legal	A4	Letter		1	FUNC+6	
	2		No.1	0	0	1	1		0			
	No.2		0	1	0	1						
	3	Media type			Plain	Coated	—		—	—	0	FUNC+6
	4		No.3	0	0	—		—	—	0		
	No.4		0	0	—		—	—	0			
	5		No.5	0	1	—		—	—	0		
	6	Print quality when fax printing			—	Normal	Fast Draft	Normal		0	FUNC+6	
7	No.6		—	0	1	1		1				
No.7	—		1	0	1							
8	Reserved	—			—			0				
SW 21	1	Reserved	—			—			0			
	2	Reserved	—			—			0			
	3	Reserved	—			—			0			
	4	Reserved	—			—			0			
	5	Reserved	—			—			0			
	6	Reserved	—			—			0			
	7	Reserved	—			—			1			
	8	Reserved	—			—			0			
SW 22	1	Reserved	—			—			0			
	2	Reserved	—			—			1			
	3	Reserved	—			—			0			
	4	Reserved	—			—			0			
	5	Reserved	—			—			0			
	6	Copy ratio for B/W copy			AUTO		100%		0	FUNC+6		
	7		No.6	0		0		1				
	No.7		0		1							
8		No.8	0		1		1					

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SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1		0				
SW I 23	1	Reserved	—		—			0	
	2	Reserved	—		—			0	
	3	Reserved	—		—			0	
	4	Reserved	—		—			0	
	5	Reserved	—		—			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			1	
	8	Reserved	—		—			0	
SW I 24	1	Align cartridge (1~30) for color cartridge	Binary input 16 8 4 2 1 No. = 1 2 3 4 5 0 1 1 1 1 (15)					0	FUNC+6
	2							1	
	3							1	
	4							1	
	5							1	
SW I 24	6	FAX printing with paper from manual feeder	Yes		No			0	
	7	FAX printing with color cartridge	Yes		No			0	
	8	FAX printing when low ink detected	Yes		No			0	
SW I 25	1	Align cartridge (1~30) for black cartridge	Binary input 16 8 4 2 1 No. = 1 2 3 4 5 0 1 1 1 1 (15)					0	FUNC+6
	2							1	
	3							1	
	4							1	
	5							1	
SW I 25	6	Cartridge alarm	Off		On			0	
	7	Low ink detection in black cartridge	Yes		No			1	
	8	Low ink detection in color cartridge	Yes		No			0	
SW I 26	1	Automatic reduce of receive	Auto		100%			1	FUNC+6
	2	Cut off mode (COPY mode)	Continue		Cut-off			0	FUNC+6
	3	Reserved	—		—			0	
	4	Reserved	—		—			0	
	5	Reserved	—		—			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	
SW I 27	1	DTMF detection time		50ms	80ms	100ms	120ms	0	
			No.1	0	0	1	1		
			No.2	0	1	0	1		
	3	Protection of remote reception (5 × ×) detect	Yes		No			0	OPTION
	4	Remote reception with GE telephone	Compatible		Not compatible			1	
	5	Remote operation code figures by external tel (0~9)	Binary input 8 4 2 1 No. = 5 6 7 8 (Data No.) Ex 0 1 0 1					0	OPTION
	6							1	
	7							0	
8		Ex	0	1	0	1	1		
SW I 28	1	Reserved	—		—			0	
	2	Reserved	—		—			0	
	3	Reserved	—		—			0	
	4	Busy tone continuous sound detect time	5sec		10sec			1	
	5	Busy tone detect continuation sound detect	No		Yes			0	
	6	Busy tone detect intermittent sound detect	No		Yes			0	
	7	Busy tone detection pulse number		2pulses	4pulses	6pulses	10pulses	1	
			No.7	0	0	1	1		
No.8			0	1	0	1			
8		No.8	0	1	0	1	1		

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1		0				
SW 29	1	TAD connect	Yes		No			0	Recep Key
	2	FAX switching when A.M. full	Yes		No			0	OPTION
	3	Section time of quiet detection		30sec	40sec	50sec	60sec	0	
	4		No.3	0	0	1	1	1	
	5	Number of CNG detect (AM mode)		1pulse	2pulses	3pulses	4pulses	0	
	6		No.5	0	0	1	1	0	
	7	OGM detect timer		Not Work	100ms	200ms	300ms	0	
	8		No.7	0	0	1	1	1	
SW 30	1	Quiet detect time	Binary input 8 4 2 1 No. = 1 2 3 4 0 1 1 0 (6sec)					0	OPTION (0~10)
	2							1	
	3							1	
	4							0	
SW 31	5	Quiet detect start timing	Binary input 8 4 2 1 No. = 5 6 7 8 0 0 0 0 (0sec)					0	OPTION (0~15)
	6							0	
	7							0	
	8							0	
SW 32	1	Off hook hold	Binary input 128 64 32 16 8 4 2 1 No. = 1 2 3 4 5 6 7 8 0 0 0 0 0 0 0 0 (0sec=No limit)					0	OPTION (0~255)
	2							0	
	3							0	
	4							0	
	5							0	
	6							0	
	7							0	
	8							0	
SW 33	1	Automatic switching mode	TEL/FAX auto switch		Switch to fax			1	Recep Key
	2	Pseudo ringing time at the TEL/FAX automatic switching mode		15sec	30sec	60sec	120sec	0	
	3		No.2	0	0	1	1	0	
	4	Number of CNG signal detection at the TEL/FAX automatic switching mode	Twice		Once			1	
	5	CNG detect time at TEL/FAX mode	3sec		5sec			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	
SW 34	1	Pseudo ringer sound output level to the line	Binary input 8 4 2 1 No. = 1 2 3 4 0 1 0 1 (-6~5dB~-11dB)					0	
	2							1	
	3							0	
	4							1	
SW 35	5	Reserved	—		—			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	
	1	Reserved	—		—			0	
	2	Reserved	—		—			0	
	3	Reserved	—		—			0	
	4	Reserved	—		—			0	
SW 36	5	Reserved	—		—			0	
	6	Reserved	—		—			0	
	7	Reserved	—		—			0	
	8	Reserved	—		—			0	
	1	Reserved	—		—			0	
	2	Reserved	—		—			0	
	3	Reserved	—		—			0	
	4	Reserved	—		—			0	

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SW NO.	DATA NO.	ITEM	Switch setting and function		Initial setting	Remarks
			1	0		
SW I 35	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	Reserved	—	—	0	
	4	Reserved	—	—	1	
	5	Reserved	—	—	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	0	
	8	Reserved	—	—	0	
SW I 36	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	Reserved	—	—	1	
	4	Reserved	—	—	1	
	5	Reserved	—	—	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	0	
	8	Reserved	—	—	0	
SW I 37	1	Reserved	—	—	0	
	2	Reserved	—	—	0	
	3	Reserved	—	—	0	
	4	Reserved	—	—	0	
	5	Reserved	—	—	0	
	6	Reserved	—	—	0	
	7	Reserved	—	—	1	
	8	Reserved	—	—	1	

• **Soft switch function description**

SW1 No. 1 ~ No. 4 Reserved

Set to "0".

SW1 No. 5 ~ No. 8 Recall times

Choice is made as to how many recall attempts should be made. Use a binary number to program this.

SW2 No. 1 Dial mode

Switch the type according to the telephone circuit connected to the facsimile.

- 1 : PULSE DIAL
- 0 : TONE DIAL

SW2 No. 2 Reception mode

Auto/manual receiving mode is set.

SW2 No. 3 ECM mode

Used to determine ECM mode function. Refer to the following table.

SW2- No. 3 ECM mode		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
SW6- No. 2 MH fixed		0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
Compression method	ECM MMR mode	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
	ECM MR mode	Yes	No	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No
	ECM MMH mode	Yes	Yes	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No
	ECM MH mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
	MR mode	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	MH mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

(Depending on remote machine)

SW2 No. 4 CNG detection in Standby mode

When setting to "1", the CNG signal detection function during standby stops.

SW2 No. 5 Polling Security

This switch is employed to enable or disable the polling operation using the ID code verification function, in order to prevent unauthorized polling operation.

SW2 No. 6 Automatic Cover Sheet

When "0" (=YES) is selected, the cover sheet is automatically sent after transmission of the original to notify the receiver of the number of original sheets transmitted.

SW2 No. 7 Junk fax function in manual reception

It is set whether Junk fax is functioned in the manual receiving mode or not.

SW2 No. 8 Anti Junk fax function

This function is used to receive data from a specific remote machine (station registered in entry mode). It is the function that refused a reception in the case that TSI of remote machine matched with fax number of the station registered.

- 0 : No
- 1 : Yes

SW3 No. 1 ~ No. 4 Number of rings for auto receive

When the machine is set in the auto receive mode, the number of rings before answering can be selected. It may be set from one to nine rings using a binary number. If the soft switch was set to 1, a direct connection is made to the facsimile. If it was set to 0 accidentally, receive ring is set to 1.

SW3 No. 5 ~ No. 8 Automatic switching manual to auto receive mode (0 : OFF)

Choice is made after how many rings in the manual receive mode it should be automatically change to auto answer mode or remain in the manual receive mode. Entering the binary number 0 forces the machine to remain in the manual answer mode. If a number between 1 and 9 is entered, the machine will go into the answer mode after the given number of rings. However, it can be used as an ordinary telephone if the handset is taken off the hook before this programmed number is finished.

SW4 No. 1 ~ No. 3 Communication results printout (Transaction report)

Every communication, the result can be output. As usual, it is set to print communication error alone. If No.1 : 1 No.2 : 1 No.3 : 0 are set, printing is always on (printed ever if it is normally ended).

- 000 : Error, timer and memory sending/receiving
- 010 : Sending
- 110 : Continuous printing
- 001 : Communication error
- 100 : Never print

SW4 No. 4 ~ No. 6 Reserved

Set to "0".

SW4 No. 7, No. 8 Number of CNG detect (STAND-BY mode)

Used for detection of CNG in 1 to 4 pulses.

SW5 No. 1 Reserved

Set to "1".

SW5 No. 2 Date format

Used to select date display/print formats.

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SW5 No. 3 Sender's information transmit

When it is set at 0, sender's name, sending page number and so on are automatically printed in the recording paper on the receiving side during transmission. Thus, the sender can be known on the receiving side.

- 0 : Applied.
- 1 : Not applied.

SW5 No. 4 Footer print

When set to "1", the date of reception, the sender machine No. and the page No. are automatically recorded at the end of reception.

SW5 No. 5 Reserved

Set to "0".

SW5 No. 6 Substitute reception

Selection of substitute reception in the case of recording paper exhausted or paper jam. If set to "NO", auto receive is disabled even when the receive memory is ready to receive.

Substitute reception is not performed even during receive operation.

SW5 No. 7 Substitute reception conditions

Selection of substitute reception according to existence of TEL number from transmitting side. Initial setting allows substitute reception without TSI. If set to "no", the receiver cannot receive any documents.

SW5 No. 8 CSI transmission

CSI signal contains the sender's phone number registered in the machine. If this switch is set to "1", no sender's name will be printed at the receiving side.

SW6 No. 1 H2 mode

Used to determine H2 mode (15 sec transmission mode). When set to OFF, H2 mode is inhibited even though the transmitting machine has H2 mode.

SW6 No. 2 MH fixed

Normally set to allow automatic selection of MH and MR mode according to the remote side.

If set to 1, the mode is fixed to MH and is useful if the remote side is a MH only unit ; or a lot of image distortion is met due to a bad line.

SW6 No. 3, No. 4 Reserved

Set to "0".

SW6 No. 5 ~ No. 8 Modem speed (DCS data reception speed)

Used to determine the initial modem speed. The default is 14400BPS (V17). It may be necessary to program it to a slower speed when frequent line fallback is encountered, in order to save the time required for the fallback procedure.

SW7 No. 1, No. 2 Reception speed fixed

The transferable speed of modem in the receiving mode is set.

SW7 No. 3 DIS receive acknowledgement during G3 transmission

Used to make a choice of whether reception of NSF (DIS) is acknowledged after receiving two NSFs (DISs) or receiving zero NSF (zero DISs). It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW7 No. 4 Non modulated carrier for V29 transmission

Though transmission of a non-modulated carrier is not required for transmission by the V29 modem according to the CCITT recommendation, it may be permitted to send a non-modulated carrier before the image signal to avoid an echo suppression problem.

It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW7 No. 5 EOL detect timer

Used to make a choice of whether to use the 25-second or 13-second timer for detection of end of line.

This is effective to override communication failures with some facsimile models that have longer end of line detection.

SW7 No. 6 Protocol monitor

Normally set to "0". If set to "1", communication can be checked, in case of troubles, without using a G3 tester or other tools.

When communication FSK data transmission or reception is made, the data is taken into buffer. When communication is finished, the data analyzed and print out. When data is received with the line monitor (SW7-No.7) set to "1" the reception level is also print out.

SW7 No.7 Line monitor

Normally set to "0". If set to "1", the transmission speed and the reception level are displayed on the LCD. Used for line tests.

SW7 No. 8 Length limitation of copy/send/receive

Used to set the maximum page length.

To avoid possible paper jam, the page length is normally limited to 1 meter for copy or transmit, and 1.5 meters for receive.

It is possible to set it to "No limit" to transmit a long document, such as a computer print form, etc. (In this case, the receiver must also be set to no limit.)

SW8 No. 1, No. 2 Digital line equalization setting (Reception)

Needs to be set to the line characteristics. A guide line is the distance between the exchange office and the telephone terminal. Since it needs not to be set in the normal case since it has been set to 1.8Km, it should be corrected in case communication failures occur frequently.

SW8 No. 3 Dial pausing (sec/pause)

Pauses can be inserted between telephone numbers of direct dial connection. Selection of 4 sec or 2 sec pause is available.

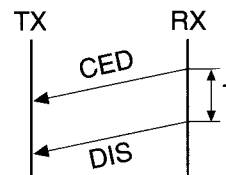
SW8 No. 4 ~ No. 8 Signal transmission level

Used to control the signal transmission level in the range of -0dB to -31dB. The factory setting is at -11dB (MODEM output).

SW9 No. 1, No. 2 CED tone signal interval

For international communication, the 2100Hz CED tone may act as an echo suppression switch, causing a communication problem.

Though SW9 No. 1, No.2 are normally set to 0, it should be changed this time between the CED tone signal to eliminate the communication problem caused by echo.



SW9 No. 3 Equalizer freeze control (MODEM)

This switch is used to perform reception operation by fixing the equalizer control of modem for the line which is always in unfavorable state and picture cannot be received. Usually, the control is executed according to the state of line where the equalizer setting is changed always.

SW9 No. 4 Equalizer freeze conditions

Setting which specifies SW9 No.3 control only in condition of 7200bps modem speed.

SW9 No. 5 CED detection time

The detection time of the CED signal from the called side in the auto calling mode is set.

SW9 No. 6 ~ No. 8 Reserved

Set to "0".

SW10 No. 1~ No. 8 Reserved

Set to "0".

SW11 No. 1, No. 2 End buzzer

The sounding length of the buzzer for normal end of operation is set.

SW11 No. 3 Communication error treatment in RTN sending mode (reception)

The operation is set when the RTN signal is received in the G3 transmission mode.

SW11 No. 4 CNG transmission after auto dialing

When set to "0", this model allows CNG transmission by pressing the Start key in the key pad dialing mode. When set to "1", CNG transmission in the key pad dialing mode cannot be performed. In either case, CNG transmission can be performed in the auto dial mode.

SW11 No. 5 Error criterion

Used to select error criterion for sending back RTN when receiving image data.

SW11 No. 6 Pulse to Tone change by ✕ key

When setting to 1, the mode is changed by pressing the ✕ key from the pulse dial mode to the tone dial mode.

SW11 No. 7 CNG transmission in manual transmission

In case of CCITT there is no need to send the CNG signal in manual transmission mode. This setting allows this signal to be sent in case of manual transmission so as to inform the other party's machine that the machine is FAX.

SW11 No. 8 Reserved

Set to "0".

SW12 No. 1 ~ No. 5 DTMF signal transmission level (Low)

The transmission level of DTMF signal is adjusted. (lower frequency)

00000 : 0 dBm

↓

11111 : -15.5 dBm

SW12 No. 6 ~ No. 8 not used

Set to "0".

SW13 No. 1 ~ No. 5 DTMF signal transmission level (High)

The transmission level of DTMF signal is adjusted. (higher frequency)

00000 : 0 dBm

↓

11111 : -15.5 dBm

SW13 No. 6 ~ No. 8 not used

Set to "0".

SW14 No. 1 PBX connection

Used to select according to the connected line : PBX (Private Branch Exchange)

SW14 No. 2 , No. 3 PBX select

Used to select the operation mode of PBX recall in auto dialing.

No.2=1 , No.3=1 : Time break recall (=Flash) is performed before dialing.

The DPON on the LIU is driven to initial recall.

No.2=1 , No.3=0 : Earth recall is performed before dialing. The E-relay on the LIU is driven to initiate recall.

No.2=0 , No.3=0 : The PBX ID digit is automatically added when dialing to external line. PBX ID is up to 3 digits and entered in Option settings mode.

SW14 No. 4 , No. 5 PBX recall function (R key select)

Used to set the operation mode of PBX recall when the R key is pressed. Setting is made according to the type of PBX.

No.4=1 , No.5=1 : Time break recall (=Flash) is performed. The DPON on the LIU board is driven to initiate recall.

No.4=1 , No.5=0 : Earth recall is performed. The E-relay on the LIU board is driven to initiate recall.

SW14 No. 6 Dial tone detection (before auto dial)

Used to set YES/NO of dial tone detection in auto dialing.

SW14 No. 7 Reserved

Set to "0".

SW14 No. 8 Busy tone detection (after auto dial)

Used to set busy tone detection in auto dialing.

SW15 No. 1 Waiting time after dialing

This is time waiting for the opponent's signals after dialing.

SW15 No. 2 ~ No. 4 Reserved

Set to "0".

SW15 No. 5 CI detection

Detection frequency of ring signal for auto reception is set. When set to 1, frequency is set to 13Hz or more.

When set to 0, frequency is set to PTT standards.

SW15 No. 6 ~ No. 8 Reserved

Set to "0".

SW16 No. 1 Special sending mode

Set to "1".

SW16 No. 2, No. 3 DTC interval

Used to set DTC transmission interval in polling.

SW16 No. 4 Reserved

Set to "0".

SW16 No. 5 E indication when RTN sending/receiving

Indication or nonindication of "E" is specified when RTN is sent or received.

SW16 No. 6 ~ No. 8 Reserved

Set to "0".

SW17 No. 1, No. 2 Speaker volume (3stages)

Speaker volume:

The sound volume of the speaker in the on-hook mode is set.

SW17 No. 3 Reserved

Set to "1".

SW17 No. 4 Reserved

Set to "0".

SW17 No. 5, No. 6 Ringer volume (4stages)

Ringer volume:

The calling sound volume of CI signal receiving is set.

SW17 No. 7, No. 8 Reserved

Set to "0".

SW18 No. 1 PC I/F mode

PC I/F mode:

The interface with the personal computer is selected.

SW18 No. 2 Auto reception in PC I/F mode

Automatic receiving of I/F mode:

Which receives the call is determined.

SW18 No. 3 Summer time setting

This is used to set YES/NO of automatic clock adjustment for European Summer time.

SW18 No. 4 Sender's phone number setting

Used to make a choice of whether the registered sender's phone number can be changed or not. If the switch is set to "1", new registration of the sender's phone number is disabled to prevent accidental wrong input.

SW18 No. 5 Polling key

If this switch is set to 1, the last of Rapid key works as polling key.

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SW18 No. 6 Activity report print

This soft switch is used to select : whether or not to print out the activity report when the memory is full. An activity report can be printed when the following key entry command is made.

"FUNKTION", "2", "#", "START"

After producing the activity report, all the data in the memory will be cleared.

When the switch function is set to "0" (no), the data in the memory will be deleted from the oldest as it reaches the maximum memory capacity.

SW18 No. 7 Total communication hours and pages print

Used to make a choice of whether the total communication time and pages are recorded in the activity report.

SW18 No. 8 Line density selection

Used to set the transmission mode which is automatically selected when the Resolution key is not pressed. In the copy mode, however, the fine mode is automatically selected unless the Resolution key is manually set to another mode.

SW19 No. 1, No. 2 Density adjustment (when Fine/STD mode)

This is used for density adjustment in fine/standard mode. Adjust the density according to that of frequently used original.

Set to "Dark" for darker reading (either in the auto or the dark mode) of light original. Set to "Light" for lighter reading (either in the auto or the dark mode) of dark original.

Set to "Dark only in dark mode" for darker reading only in the dark mode.

SW19 No. 3, No. 4 Density adjustment (when Half-tone mode)

This is used for density adjustment in the half tone.

SW19 No. 5 Reserved

Set to "0".

SW19 No. 6 ~ No. 8 Copy ratio for color copy

Set the magnification when "PRESET" is selected in color copy mode.

SW20 No. 1, No. 2 Paper set size

Set the size of recording paper for reception and list print.

SW20 No. 3 ~ No. 5 Media type

Set the type of recording paper for reception and list print.

SW20 No. 6, No. 7 Print quality when fax printing

Set the printing method for reception and list print.

SW20 No. 8 Reserved

Set to "0".

SW21 No. 1 ~ No. 6 Reserved

Set to "0".

SW21 No. 7 Reserved

Set to "1".

SW21 No. 8 Reserved

Set to "0".

SW22 No. 1 Reserved

Set to "0".

SW22 No. 2 Reserved

Set to "1".

SW22 No. 3 ~ No. 5 Reserved

Set to "0".

SW22 No. 6 ~ No. 8 Copy ratio for B/W copy

Set the magnification when "PRESET" is selected in copy mode.

SW23 No. 1 ~ No. 6 Reserved

Set to "0".

SW23 No. 7 Reserved

Set to "1".

SW23 No. 8 Reserved

Set to "0".

SW24 No. 1 ~ No. 5 Align cartridge (1~30) for color cartridge

After the color cartridge has been mounted press

"FUNKTION", "6", "X", "X", "X", "X", "START"

to print Bidirectional Alignment Pattern.

On the printed test page, locate the number under the Bidirectional Alignment Pattern that comes closest to forming a perfectly straight line.

SW24 No. 6 FAX printing with paper from manual feeder

To print the received picture in hand paper feed mode, set "1".

SW24 No. 7 FAX printing with color cartridge

To print the received picture with the color cartridge set "1".

SW24 No. 8 FAX printing when low ink detected

To print the received picture in "Low Ink" state, set "1".

SW25 No. 1 ~ No. 5 Align cartridge (1~30) for black cartridge

After the black cartridge has been mounted press

"FUNKTION", "6", "X", "X", "X", "X", "START"

to print Bidirectional Alignment Pattern.

On the printed test page, locate the number under the Bidirectional Alignment Pattern that comes closest to forming a perfectly straight line.

SW25 No. 6 Cartridge alarm

Set existence/nonexistence of alarm tone alarming the failure of return of cartridge to the home position.

SW25 No. 7 Low ink detection in black cartridge

Set detection/nondetection of black ink "Low ink".

SW25 No. 8 Low ink detection in color cartridge

Set detection/nondetection of color ink "Low ink".

SW26 No. 1 Automatic reduce of receive

If set to 1, it is reduced automatically when receiving.

SW26 No. 2 Cut off mode (COPY mode)

Whether the excessive part is printed on the next recording paper or discarded is selected to copy a document which is longer than the recording paper.

SW26 No. 3 ~ No. 8 Reserved

Set to "0".

SW27 No. 1, No. 2 DTMF detection time

Used to set detect time of DTMF (Dual Tone Multi Frequency) used in remote reception (5 X X).

The longer the detect time is, the less the error detection is caused by noises.

SW27 No. 3 Protection of remote reception (5 X X) detect

Used to set the function of remote reception (5 X X). When set to "1", the remote reception function is disabled.

SW27 No. 4 Remote reception with GE telephone

(Corresponding to TEL made by GE) P.B.X.

"1": Compatible with TEL mode by GE

"0": Not compatible

- When sending (5 X X) for remote reception with a GE manufactured telephone remote reception may not take place because of special specifications in their DTMF.

To overcome this, a soft SW is provided to change the modem setting to allow for remote reception.

- If this soft SW is set to "1", other telephone sets may be adversely affected.

SW27 No. 5 ~ No. 8 Remote operation code figures by external tel (0~9)

Remote operation codes can be changes from 0 through 9. If set to greater than 9, it defaults to 9. The "5 X X" is not changed.

Ex-7 X X (Default : 5 X X).

SW28 No. 1 ~ No. 3 Reserved

Set to "0".

SW28 No. 4 Busy tone continuous sound detect time

Set detecting time busy tone for 5 seconds or 10 seconds.

SW28 No. 5 Busy tone detect continuation sound detect

Used to select detection of the continuous sound of certain frequency.

SW28 No. 6 Busy tone detect intermittent sound detect

Used to select detection of the intermittent sound of certain frequency.

SW28 No. 7, No. 8 Busy tone detection pulse number

Used to select detection of Busy tone intermittent sounds.

SW29 No. 1 TAD connect

When connecting the answering machine to the extension telephone jack.

Set to "1".

SW29 No. 2 FAX switching when A.M.full

If the answering machine's memory (tape) is full and there is no response, the machine automatically switches to Fax reception.

SW29 No. 3, No. 4 Section time of quiet detection

The switch which sets the time from the start of detection function to the end of the function.

SW29 No. 5, No. 6 Number of CNG detect (AM mode)

Used for detection of CNG in 1 to 4 pulses.

SW29 No. 7, No. 8 OGM detect timer

A.M. mode is working after detecting OGM of answering machine. This is used to change the detection time of OGM or cancel to detect the OGM.

SW30 No. 1 ~ No. 4 Quiet detect time

When an answering machine is connected, if a no sound state is detected for a certain period of time, the machine judges it as a transmission from a facsimile machine and automatically switches to the Fax mode.

SW30 No. 5 ~ No. 8 Quiet detect start timing

Inserts a pause before commencing quiet detection.

SW31 No. 1 ~ No. 8 Off hook hold

Used to set Off hook hold time by binary input.
(0 to 255 seconds)

SW32 No. 1 Automatic switching mode

Used to set auto TEL/FAX switching mode or to set the normal fax mode.

SW32 No. 2, No. 3 Pseudo ringing time at the TEL/FAX automatic switching mode

Choice is made as to how long to rumble the dummy ringer on TEL/FAX automatic switching mode.

SW32 No. 4 Number of CNG signal detection at the TEL/FAX automatic switching mode

Used for detection of CNG in one tone or two tones in the TEL/FAX automatic switching mode.

SW32 No. 5 CNG detect time at TEL/FAX mode

The number of times at which CNG signal is detected is set during receiving in the TEL/FAX automatic switch setting mode.

0 : 5 seconds

1 : 3 seconds

SW32 No. 6 ~ No. 8 Reserved

Set to "0".

SW33 No. 1 ~ No. 4 Pseudo ringer sound output level to the line

Used to adjust sound volume of pseudo ringer to the line (ring back tone) generated on selecting TEL/FAX.

SW33 No. 5 ~ No. 8 Reserved

Set to "0".

SW34 No. 1 ~ No. 8 Reserved

Set to "0".

SW35 No. 1 ~ No. 3 Reserved

Set to "0".

SW35 No. 4 Reserved

Set to "1".

SW35 No. 5 ~ No. 8 Reserved

Set to "0".

SW36 No. 1, No. 2 Reserved

Set to "0".

SW36 No. 3, No. 4 Reserved

Set to "1".

SW36 No. 5 ~ No. 8 Reserved

Set to "0".

SW37 No. 1 ~ No. 6 Reserved

Set to "0".

SW37 No. 7, No. 8 Reserved

Set to "1".

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[3] Troubleshooting

Refer to the following actions to troubleshoot any of problems mentioned in 1-4.

[1] A communication error occurs.

[2] Image distortion produced.

[3] Unable to do overseas communication.

[4] Communication speed slow due to FALLBACK.

- Increase the transmission level SOFT SWITCH 8-4, 5, 6, 7, 8.
May be used in case [1] [2] [3].
- Decrease the transmission level SOFT SWITCH 8-4, 5, 6, 7, 8.
5. May be used in case [3].

- Apply line equalization SOFT SWITCH 8-1, 2.
May be used in case [1] [2] [3] [4].

- Slow down the transmission speed SOFT SWITCH 6-5, 6, 7, 8.
May be used in case [2] [3].

- Replace the TEL/LIU PWB.
May be used in all cases.

- Replace the control PWB.
May be used in all cases.

* If transmission problems still exist on the machine, use the following format and check the related matters.

TO: _____ ATT: _____ Ref.No.: _____
CC: _____ ATT: _____ Date: _____
FM: _____ Dept: _____
Sign: _____

***** Facsimile communication problem *****				Ref.No.:								
From: Mr. _____		Fax Tel No.: _____		Date: _____								
Our customer	Name _____		Tel No. _____									
	Address _____		Fax No. _____									
	Contact person _____		Model name _____									
Other party	Name _____		Tel No. _____									
	Address _____		Fax No. _____									
	Contact person _____		Model name _____									
Problem mode	Line: Domestic / international _____		Model: G3		Phase: A, B, C, D.							
	Reception / Transmission _____		Automatic reception / Manual reception _____									
			Automatic dialing / Manual dialing / Others _____									
Frequency: _____		%		ROM version: _____								
Confirmation item			Please mark problem with an X.									
			No problem is: 0.									
			A1	A2	B1	B2	C1	C2	D1	D2	E1	E2
			Transmission level setting is () dB at our customer									
Comment			Transmission level () dBm									
			Reception level () dBm									
			By level meter at B1 and B2									
Countermeasure												

**** Please attach the G3 data and activity report on problem. ****

* Please complete this report before calling the "TAC" hotline if problem still occurs.

[4] Error code table

1. Communication error code table

G3 Transmission

Code	Final received signal	Error Condition (Receiver side)
0	Incomplete signal frame	Cannot recognize bit stream after flag
1	NSF, DIS	Cannot recognize DCS signal by echo etc. Cannot recognize NSS signal (FIF code etc)
2	CFR	Disconnects line during reception (carrier missing etc)
3	FTT	Disconnects line by fall back
4	MCF	Disconnects line during reception of multi page Cannot recognize NSS, DCS signal in the case of mode change
5	PIP or PIN	The line is hung up without replying to telephone request from the receiving party.
6	RTN or RTP	Cannot recognize NSS, DCS signal after transmit RTN or RTP signal.
7	No signal or DCN	No response in receiver side or DCN signal received* (transmitter side)
8	—	Owing to error in some page the error could not be corrected although the specified number of error retransmission was attempted.
11	—	Error occurred after or while reception by the remote (receiving) machine was revealed to be impossible.
12	—	Error occurred just after fallback.
13	—	Error occurred after a response to retransmission end command was received.

G3 Reception

Code	Final received signal	Error Condition (Receiver side)
0	Incomplete signal frame	Cannot recognize bit stream after flag
1	NSS, DCS	Cannot recognize CFR or FTT signal Disconnects line during transmission (line error)
2	NSC, DTC	Cannot recognize NSS signal (FIF code etc)
3	EOP	Cannot recognize MCF, PIP, PIN, RTN, RTP signal
4	EOM	Cannot recognize MCF, PIP, PIN, RTN, RTP signal in the case of mode change
5	MPS	The line is hung up without replying to communication request.
6	PR1-Q	Cannot recognize PIP, PIN signal in the case of TALK request
7	No signal or DCN	No response in transmitter (cannot recognize DIS signal) or DCN signal received* (receiver side)
8	—	Error occurred upon completion of reception of all pages.
9	—	Error occurred when mode was changed or Transmission/Reception switching was performed.
10	—	Error occurred during partial page or physical page reception.
11	—	Error occurred after or during inquiry from the remote (transmitting) machine as to whether reception is possible or not.
12	—	Error occurred during or just after fallback.
13	—	Error occurred after the retransmission end command was received.

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M E M O

CHAPTER 3. MECHANISM BLOCKS

[1] General description

1. Document feed block and diagram

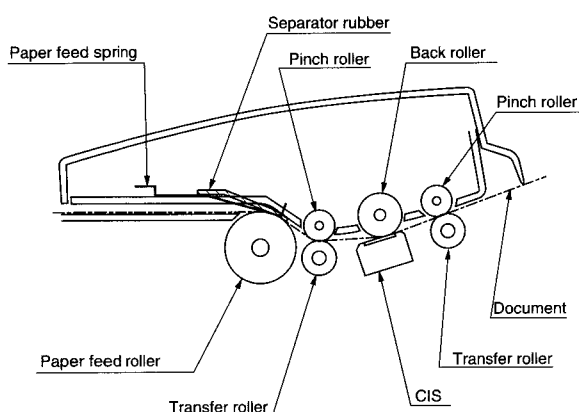


Fig. 1

2. Document feed operation

- 1) The document placed in the hopper actuates the document sensor. After one second, the pulse motor starts to the paper feed roller. The document is automatically taken up into the machine, and stopped at the document sensor.
- 2) When a specified number of pulses are received from the document sensor after the document lead edge is sensed, scanning is started.
- 3) When a specified number of pulses are received from the document sensor after the document rear edge is sensed. Scanning is terminated and the document is fed through.
- 4) If the document sensor is active (i.e., another document is in the hopper), when the preceding document scanning is completed and it is fed out, the next document is taken up into the machine. If the document sensor is not active (i.e., there is no document in the hopper), when the document is fed out, the operation is terminated.

3. Hopper mechanism

3-1. General view

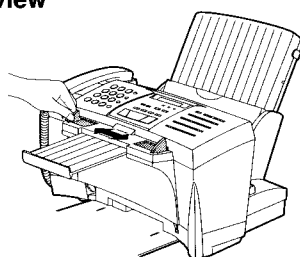


Fig. 2

The hopper is used to align documents with the document guides adjusted to the paper width.

NOTE: Adjust the document guide after setting up the document.

3-2. Automatic document feed

- 1) Use of the paper feed roller and separation rubber plate ensures error-free transport and separation of documents. The plate spring presses the document to the paper feed roller to assure smooth feeding of the document.
- 2) Document separation method: Separation rubber plate

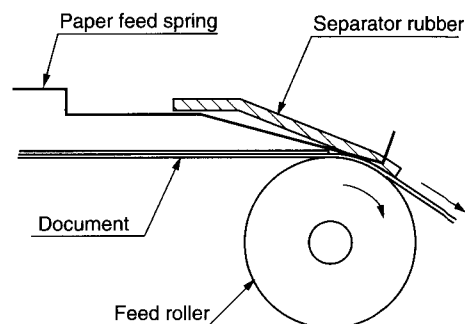


Fig. 3

3-3. Documents applicable for automatic feed

	Minimum	Maximum
Weight	45kg 52g/m ² 14LB	70kg 80(81)g/m ² 20(21.7)LB
Thickness	0.06mm 0.0024"	0.1(0.09)mm 0.0035"
Document size	B6(148mmx128mm) ~ LGL(216mmx355.6mm) A4(210mmx297mm) LTR(216mmx279mm)	
Capacity	B6 ~ LTR/A4	20sheets
Manual	More than 90kg(104g/m ²)	1sheet
	Below 135kg(157g/m ²)	1sheet
*One page is supported for 1m length paper max.(hdd paper by hand)		

NOTE: Double-side coated documents and documents on facsimile recording paper should be inserted manually. The document feed quantity may be changed according to the document thickness.

Documents corresponding to a paper weight heavier than 64.3kg (74.3g/m²) and lighter than 135kg (157g/m²) are acceptable for manual feed.

Documents heavier than 135kg in terms of the paper weight must be duplicated on a copier to make it operative in the facsimile.

3-4. Loading the documents

- 1) Make sure that the documents are of suitable size and thickness, and free from creases, folds, curls, wet glue, wet ink, clips, staples and pins.
- 2) Place documents face down in the hopper.
 - i) Adjust the document guides to the document size.
 - ii) Align the top edge of documents and gently place them into the hopper. The first page under the stack will be taken up by the feed roller to get ready for transmission.

NOTES: 1) Curled edge of documents, if any, must be straightened out.

2) Do not load the documents of different sizes and/or thicknesses together.

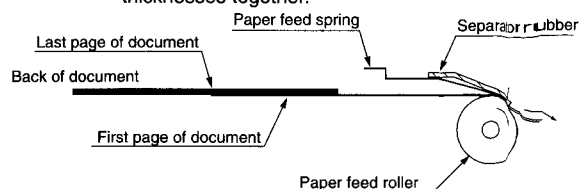


Fig. 4

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3-5. Documents requiring use of document carrier

- 1) Documents smaller than B6 (128mm x 182mm).
- 2) Documents thinner than the thickness of 0.06mm.
- 3) Documents containing creases, folds, or curls, especially those whose surface is curled (maximum allowable curl is 5mm).
- 4) Documents containing tears.
- 5) Carbon-backed documents. (Insert a white sheet of paper between the carbon back and the document carrier to avoid transfer of carbon to the carrier.)
- 6) Documents containing an easily separable writing material (e.g., those written with a lead pencil).
- 7) Transparent documents.
- 8) Folded or glued documents.

Document in document carrier should be inserted manually into the feeder.

4. Document release

4-1. General

When the release lever is pulled by hand in the direction of arrow, the latch is released and the upper document guide moves on its axis in the direction of the arrow. The feed rollers, the separation rubber plate, and the pinch rollers become free to make it possible to remove the document.

4-2. Cross section view

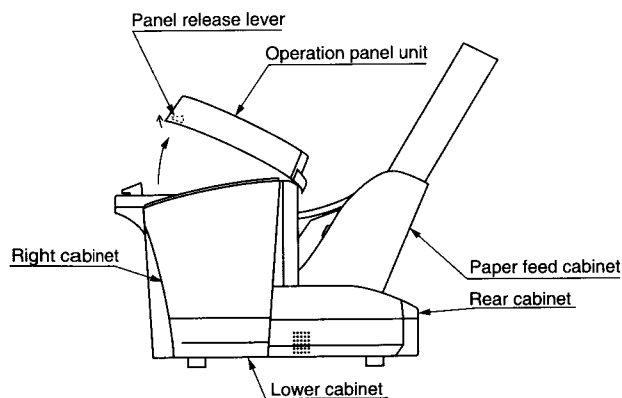


Fig. 5

5. Paper feed

5-1. ASF

As a result of reception motor drive the reduction gear, idler gear, planetary gear, and paper feed gear are synchronized. Since the Pu roller rotates, the paper sensor is turned on and advanced until it engages with the feed roller. Then, the motor is inverted to feed to the print position with the feed roller.

5-2. Manual paper feed

Insert the paper, aligning with the right side of paper feed cab until the paper sensor is turned on and the feed roller catches. It is sent to the print position by the feed roller.

5-3. Print

The ink cartridge is moved from the right side to the left side by the carriage motor. At this time ink is ejected from the ink cartridge to print on the paper.

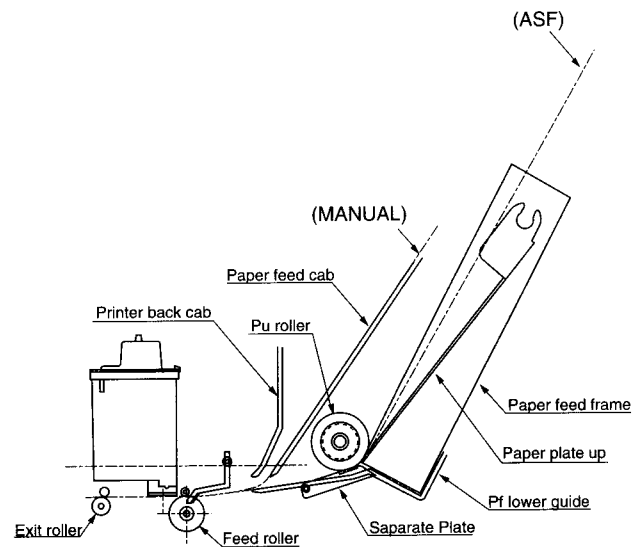


Fig. 6

5-4. ASF sequence

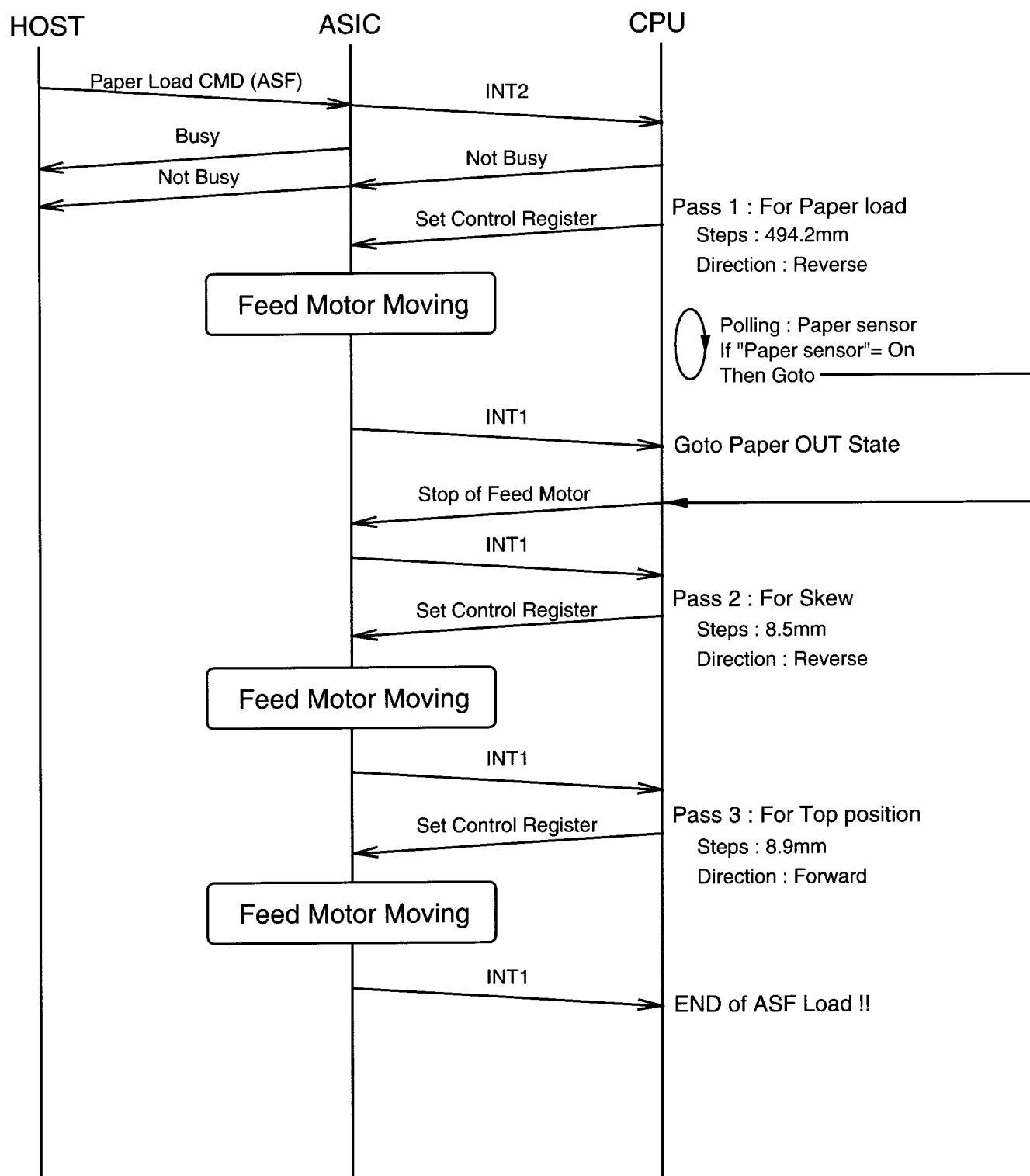


Fig. 7

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[2] Disassembly and assembly procedures

- This chapter mainly describes the disassembly procedures. For the assembly procedures, reverse the disassembly procedures.
- Easy and simple disassembly/assembly procedures of some parts and units are omitted. For disassembly and assembly of such parts and units, refer to the Parts List.
- The numbers in the illustration, the parts list and the flowchart in a same section are common to each other.
- To assure reliability of the product, the disassembly and the assembly procedures should be performed carefully and deliberately.
- Note on changing cartridges : To prevent the used print cartridge from drying out, be sure to store it in the cartridge holder.

1	Rear Cabinet, Paper Feed Unit Handset Holder, Printer Back Cabinet	Disassembly procedures (Fig. 1)																		
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">STEP</th> <th style="width: 35%;">REMOVAL</th> <th style="width: 55%;">PROCEDURE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Rear Cabinet</td> <td>1. Screw (3x12) (A1) x 2</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Document Tray</td> <td>1. Push inside the Document Tray arms(a)</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Paper Feed Unit</td> <td>1. Screw (3x6) (B1) x 1</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Handset Holder</td> <td>1. Open the Operation Panel Unit 2. Screw (3x12) (C1) x 1 3. Release the Handset Holder lock nails ...(b)</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Printer Back Cabinet</td> <td>1. Screw (3x10) (D1) x 2</td> </tr> </tbody> </table>	STEP	REMOVAL	PROCEDURE	1	Rear Cabinet	1. Screw (3x12) (A1) x 2	2	Document Tray	1. Push inside the Document Tray arms(a)	3	Paper Feed Unit	1. Screw (3x6) (B1) x 1	4	Handset Holder	1. Open the Operation Panel Unit 2. Screw (3x12) (C1) x 1 3. Release the Handset Holder lock nails ...(b)	5	Printer Back Cabinet	1. Screw (3x10) (D1) x 2
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3	Paper Feed Unit	1. Screw (3x6) (B1) x 1																		
4	Handset Holder	1. Open the Operation Panel Unit 2. Screw (3x12) (C1) x 1 3. Release the Handset Holder lock nails ...(b)																		
5	Printer Back Cabinet	1. Screw (3x10) (D1) x 2																		

Fig. 1

2 Left Cabinet, Right Cabinet, Front cover

Disassembly procedures (Fig. 2)

STEP	REMOVAL	PROCEDURE
1	Left Cabinet	1. Screw (3x12) (A1) x 2 2. Release the Left Cabinet lock nails(a)
2	Right Cabinet	1. Screw (3x12) (B1) x 1 2. Release the Right Cabinet lock nails(b)
3	Front Cover	1. Push inside the Front Cover arms(c)

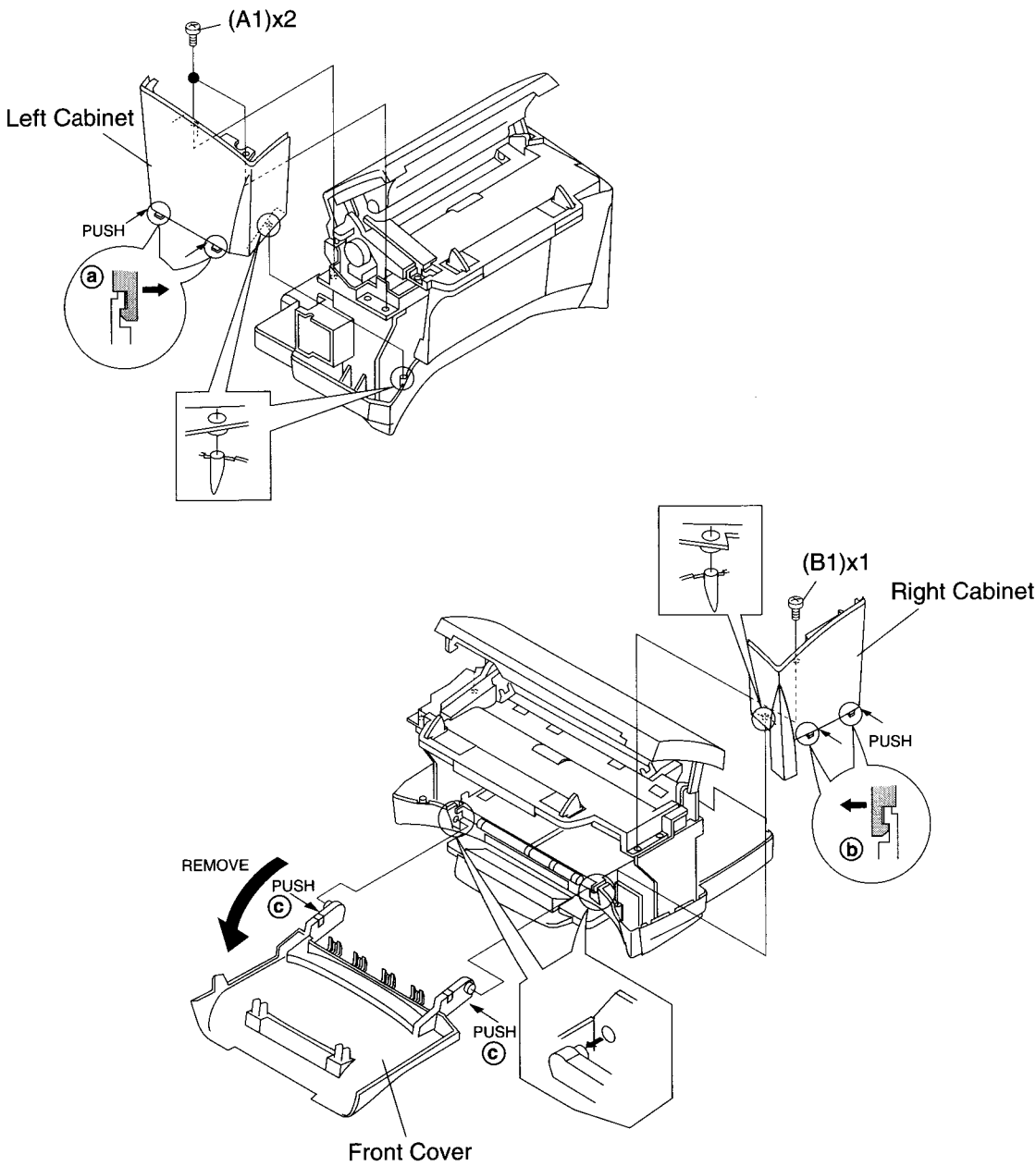


Fig. 2

3 Operation panel Unit

Disassembly procedures (Fig. 3)

STEP	REMOVAL	PROCEDURE
1	Operation Panel Unit	1. Push the Operation Panel Unit arms (a)
2	Panel Cabinet Upper Document Guide	1. Screw (3x10) (B1) x 3 2. Socket (B2) x 1 3. Push the Upper Document Guide arms (b)
3	Panel PWB Unit, 12Key, Direct Key, Start Key, Stop Key, Mode Key, Insulation Sheet, LCD PWB Unit	1. Screw (2x6) (C1) x 6 2. Push outside the LCD PWB Hook (c)

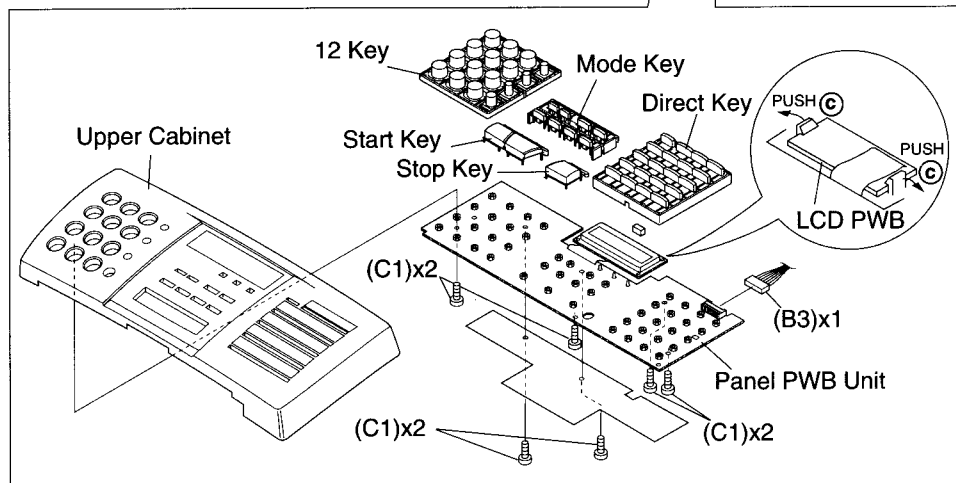
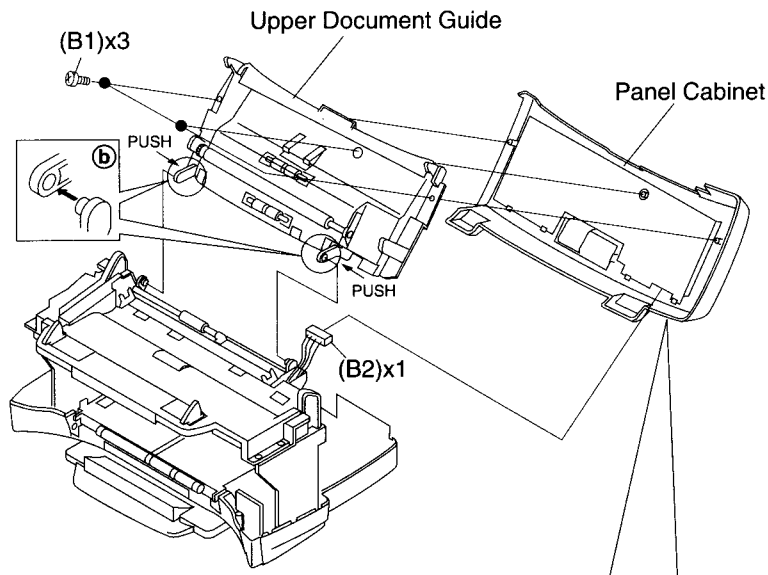
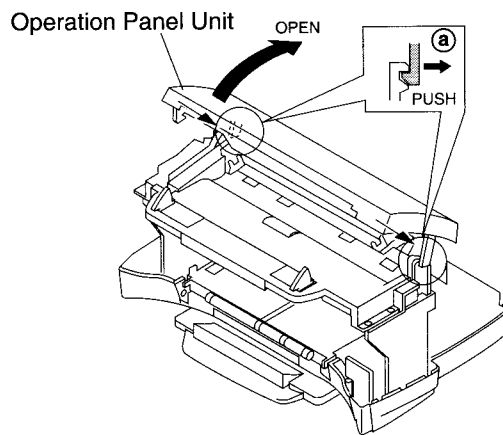


Fig. 3

4

Paper Feed Cabinet

Disassembly procedures (Fig. 4)

STEP	REMOVAL	PROCEDURE
1	Paper Feed Cabinet	1. Screw (3x10) (A1) x 2
2	Paper Feed Roller Holder	1. Screw (3x10) (B1) x 2
3	Paper Up Roller Ass'y	1. Remove the Paper Feed Gear 2. Pull forward the shaft holder ^(a) 3. Remove the Paper Up Roller Shaft
4	Paper Feed Frame	1. Screw (3x10) (C1) x 2 2. Screw (3x10) (C2) x 2 3. Remove the RP Release Gear 4. Remove the RP Release Plate 5. Remove the Paper Up Plate

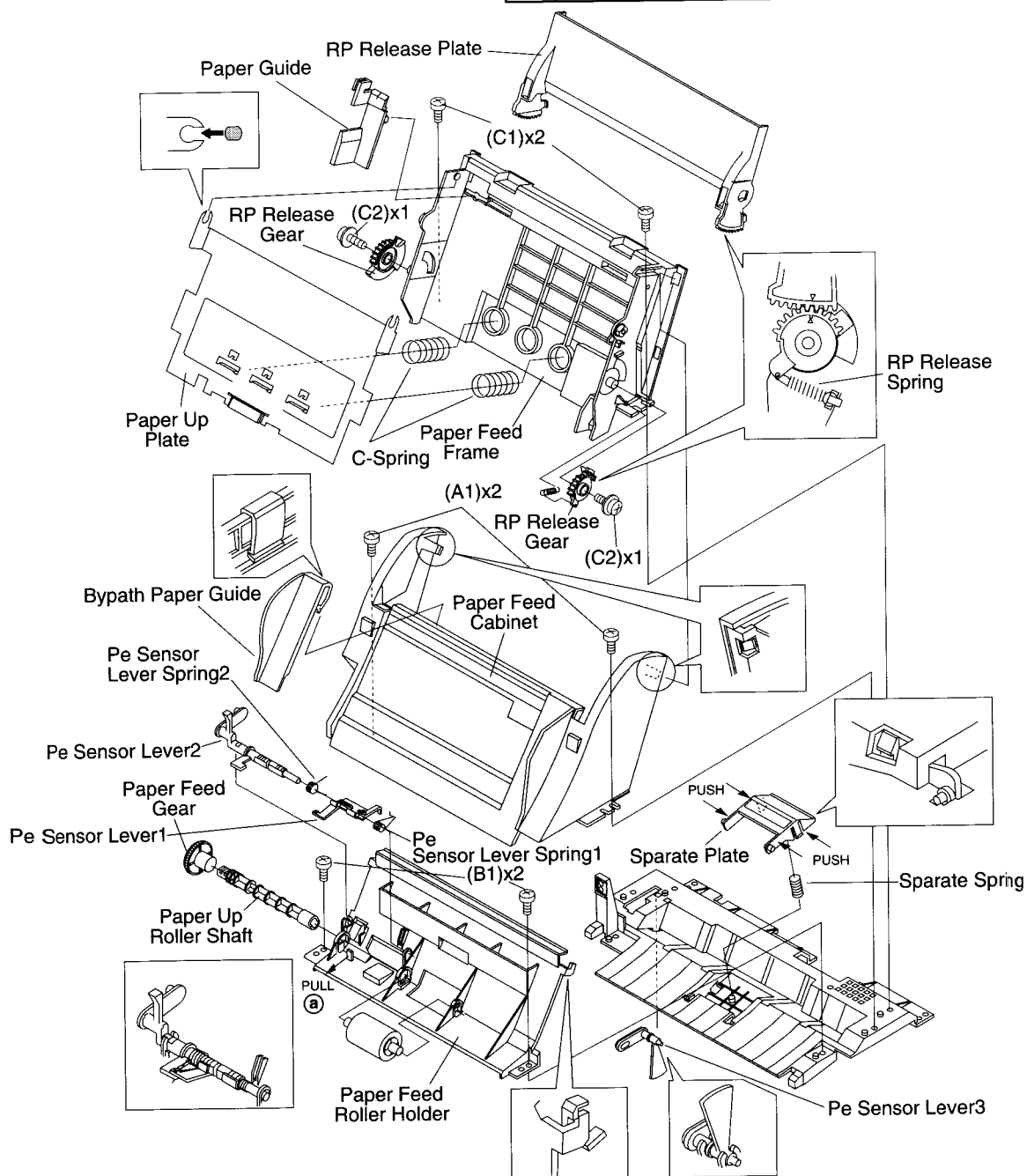


Fig. 4

Disassembly procedures (Fig. 5)

STEP	REMOVAL	PROCEDURE
1	Strength Angle	1. Screw (3x10) (A1) x 1 2. Screw (3x10) (A2) x 1
2	Strengthen Plate	1. Screw (3x10) (A3) x 2
3	Pinch Roller Shaft Pinch Roller	1. Remove springs (a)
4	Document Out Spring	1. Screw (3x6) (A4) x 1
5	Panel Lock Lever	1. Remove spring (b) 2. Remove the Panel Lock Lever (c)

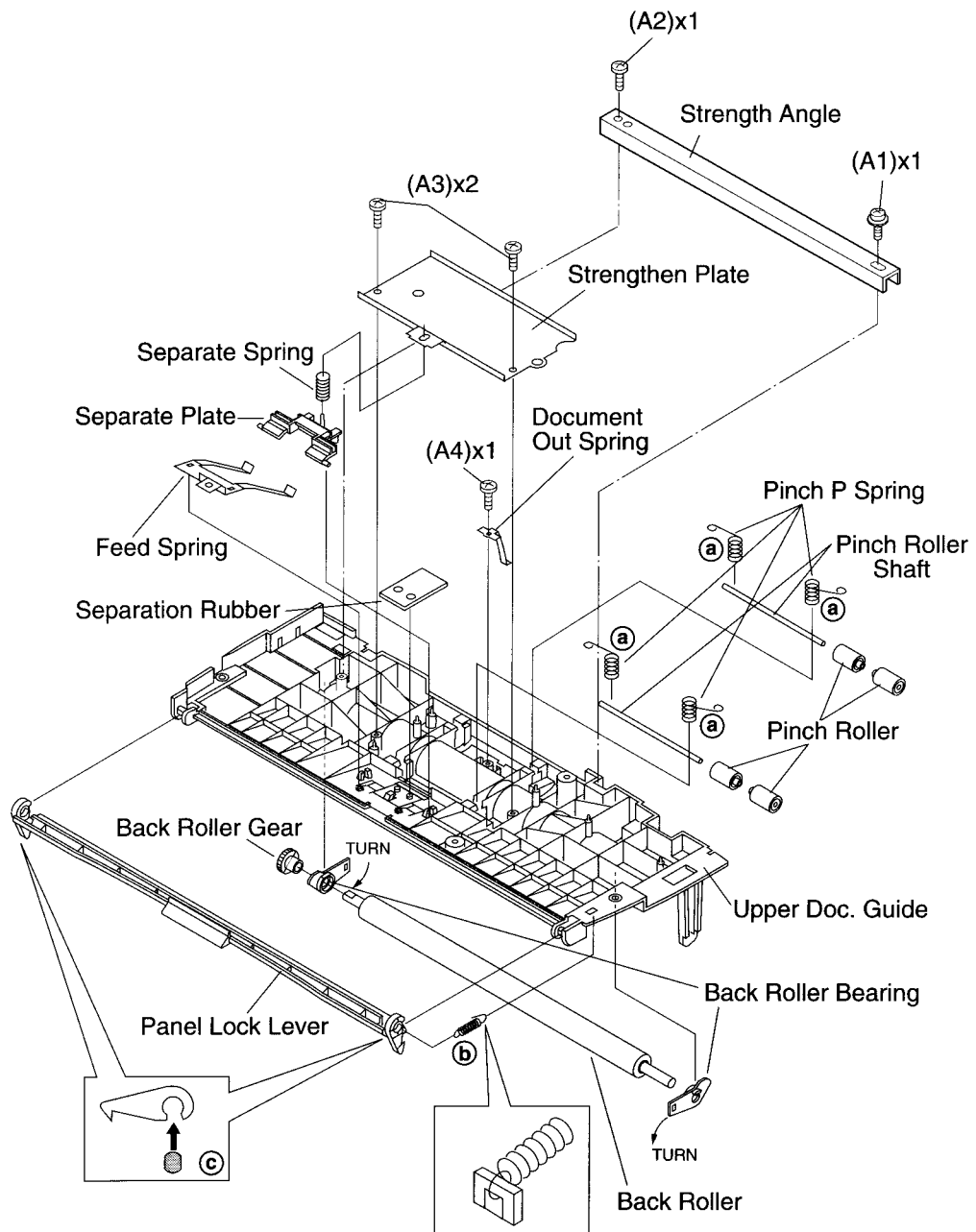


Fig. 5

6 Lower Document Guide, CIS Unit

Disassembly procedures (Fig. 6)

STEP	REMOVAL	PROCEDURE
1	Lower Document Guide	1. Screw (3x10) (A1) x 1 2. Pull the Lower Document Guide latch(a)
2	CIS Unit Ass'y	1. Pull outside the CIS Unit hook(b) 2. Socket (B1) x 1 3. Screw(2.6x6) (B2) x 4 4. Remove the CIS Holder

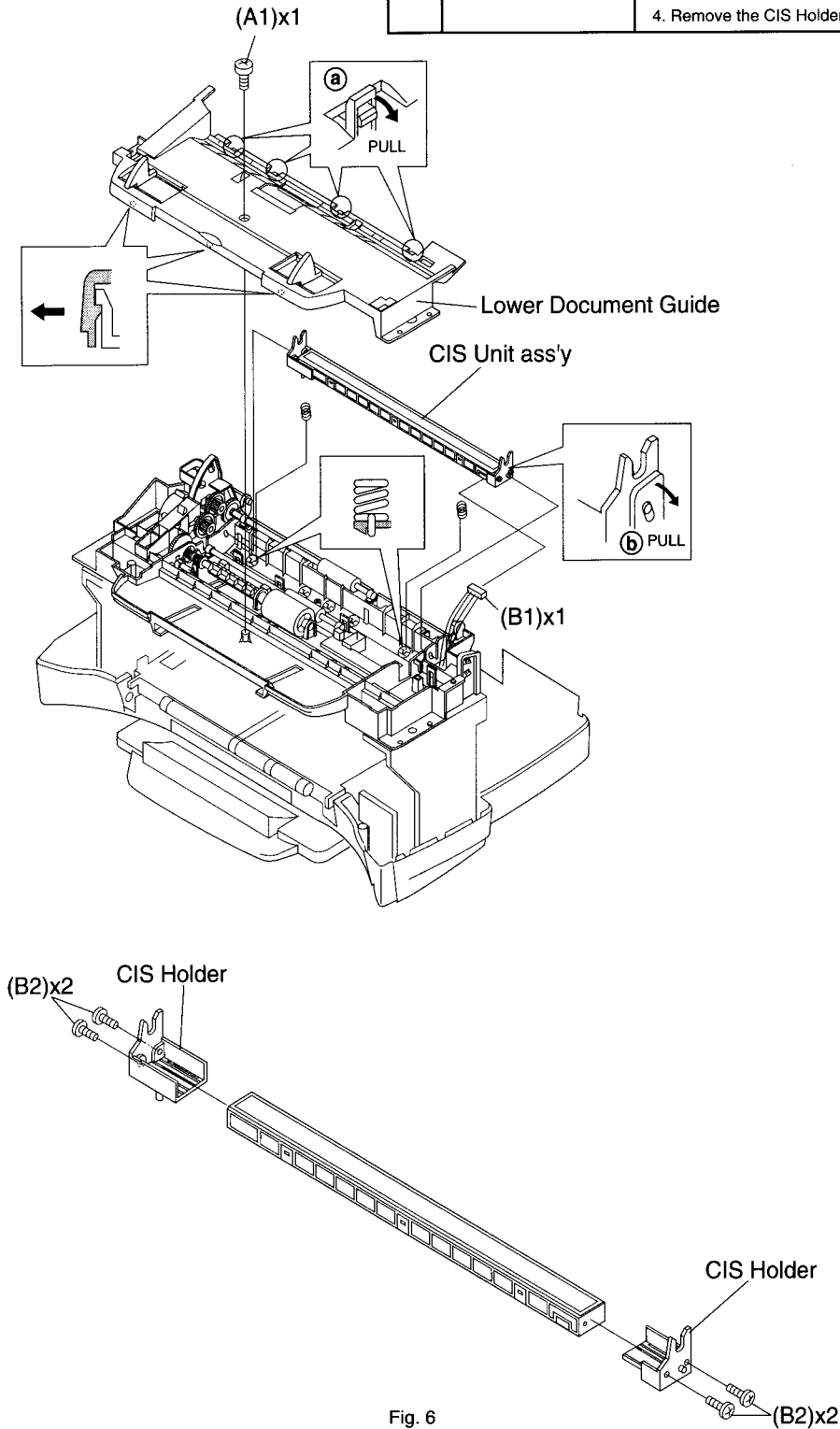
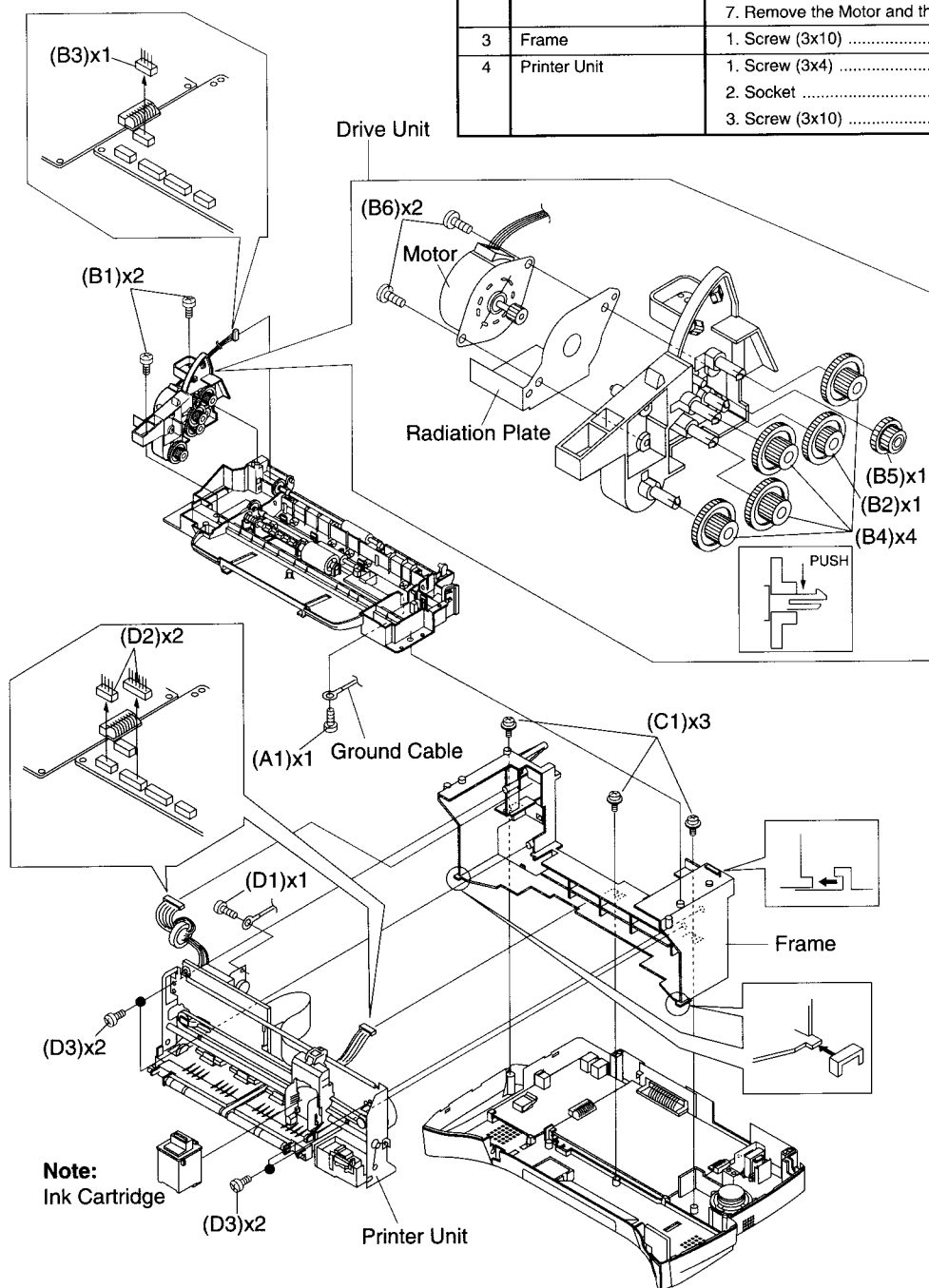


Fig. 6

7 Drive Unit, Printer Unit

Disassembly procedures (Fig. 7)

STEP	REMOVAL	PROCEDURE
1	Ground Cable	1. Screw (3x4) (A1) x 1
2	Drive Unit	1. Screw (3x10) (B1) x 2 2. Gear (18/35z) (B2) x 1 3. Socket (B3) x 1 4. Gear (18/36z) (B4) x 4 5. Gear (15/23z) (B5) x 1 6. Screw (3x10) (B6) x 2 7. Remove the Motor and the Radiation Plate
3	Frame	1. Screw (3x10) (C1) x 3
4	Printer Unit	1. Screw (3x4) (D1) x 1 2. Socket (D2) x 2 3. Screw (3x10) (D3) x 4



Note:
To prevent the used print cartridge from drying out,
be sure to store it in the cartridge holder.

Fig. 7

8 Scanner Unit

Disassembly procedures (Fig. 8)

STEP	REMOVAL	PROCEDURE
1	Transfer Roller	1. Remove the Transfer Roller
2	Feed Roller	1. Screw (3x30) (A1) x 1
3	Extension Hopper	1. Slide the Extension Hopper
4	Sub Base Plate	1. Push the Sub Base Plate latch (a) 2. Slide the Sub Base Plate (b)

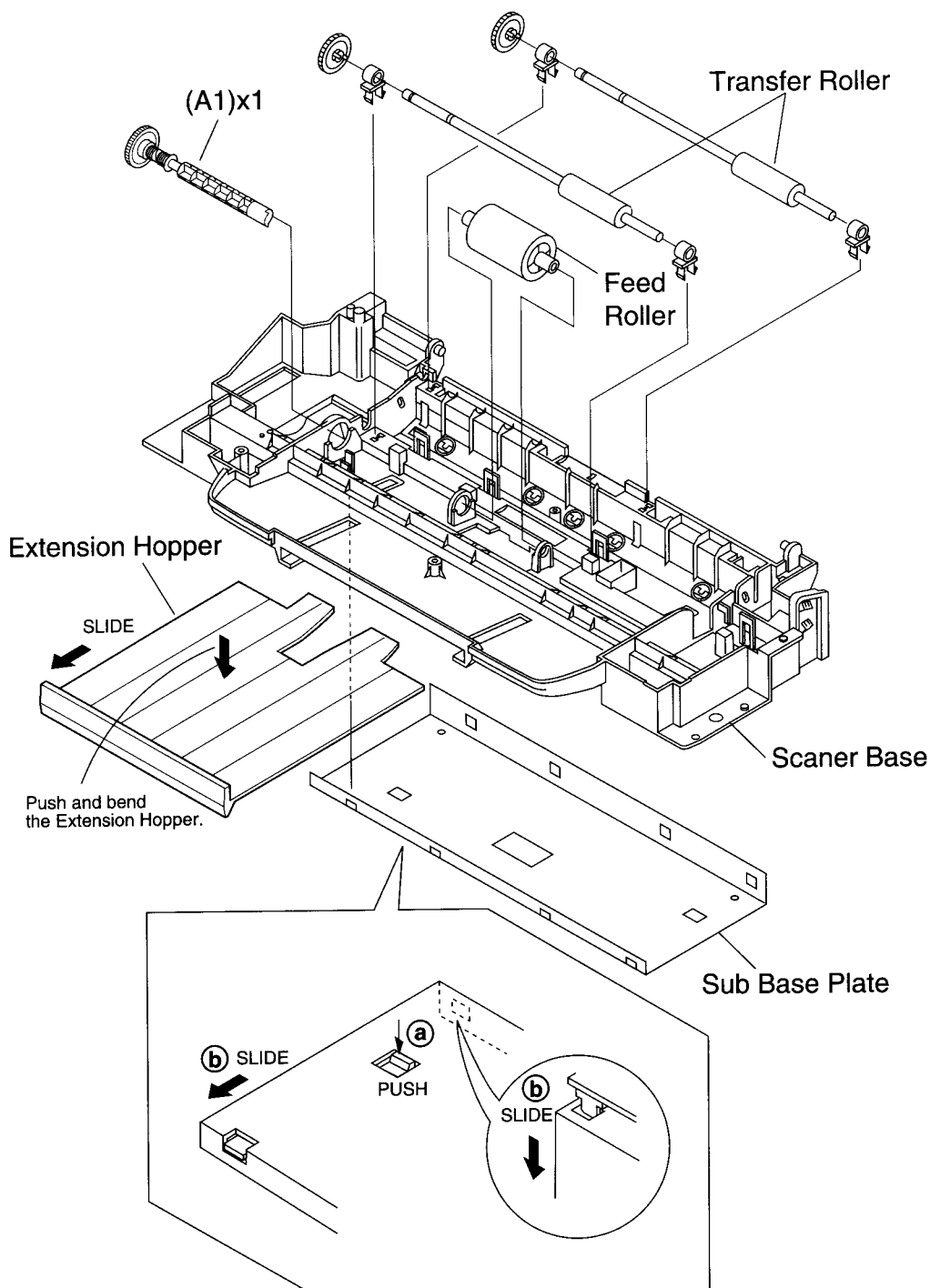


Fig. 8

9 Printer Unit

Disassembly procedures (Fig. 9)

STEP	REMOVAL	PROCEDURE
1	Stepping CR Motor	1. Socket (A1) x 1 2. Screw (2x5) (A2) x 2
2	Ink Carrier	1. Socket (B1) x 2 2. Holder (B2) x 1 3. Remove the Main Shaft 4. Screw (2x5) (B3) x 1
3	Paper Feed Motor	1. Socket (C1) x 1 2. Screw (3x4) (C2) x 2
4	Maintenance Base	1. Screw (1x6) (D1) x 1
5	Motor Bracket Base Frame INK PWB Unit	1. Screw (3x6) (E1) x 1 2. Screw (3x4) (E2) x 2 3. Remove Bearing ^a 4. Screw (3x10) (E3) x 1
6	Printer PWB Unit	1. Screw (3x4) (F1) x 3

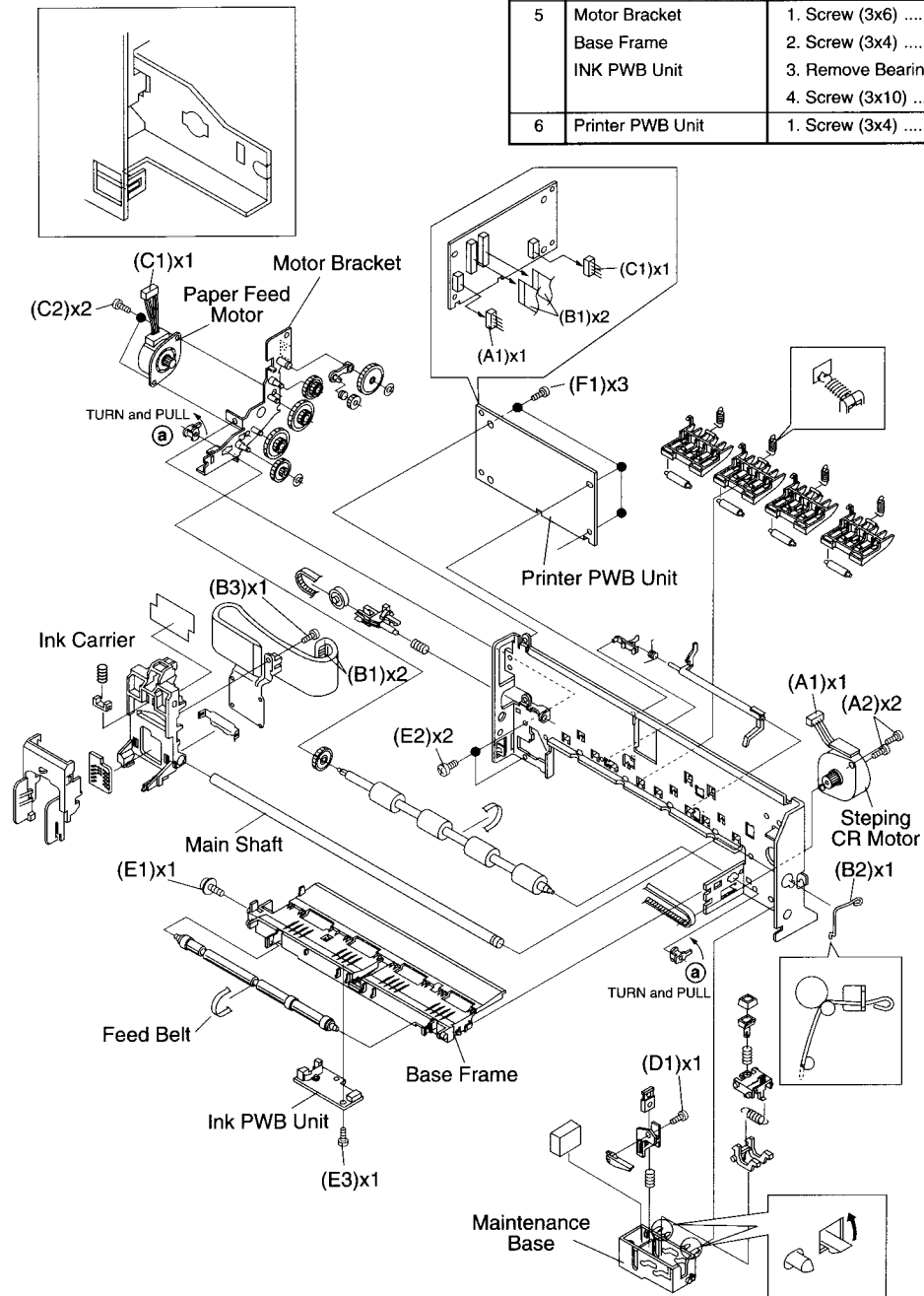


Fig. 9

10

**Control PWB Unit, TEL/Liu PWB Unit,
Power Supply PWB Unit**

Disassembly procedures (Fig. 10)

STEP	REMOVAL	PROCEDURE
1	Speaker Ass'y	1. Socket (A1) x 1 2. Screw (3 x 10) (A2) x 3
2	Control PWB Unit TEL/Liu PWB Unit Power Supply PWB Unit Insulation Sheet Shield Plate	1. Screw (3 x 10) (B1) x 7 2. Screw (3 x 6) (B2) x 1 3. Screw (3 x 6) (B3) x 2 4. Screw (3 x 6) (C1) x 1 5. Screw (4 x 6) (C2) x 1 6. Screw (3 x 6) (C3) x 1 7. Socket (C4) x 1

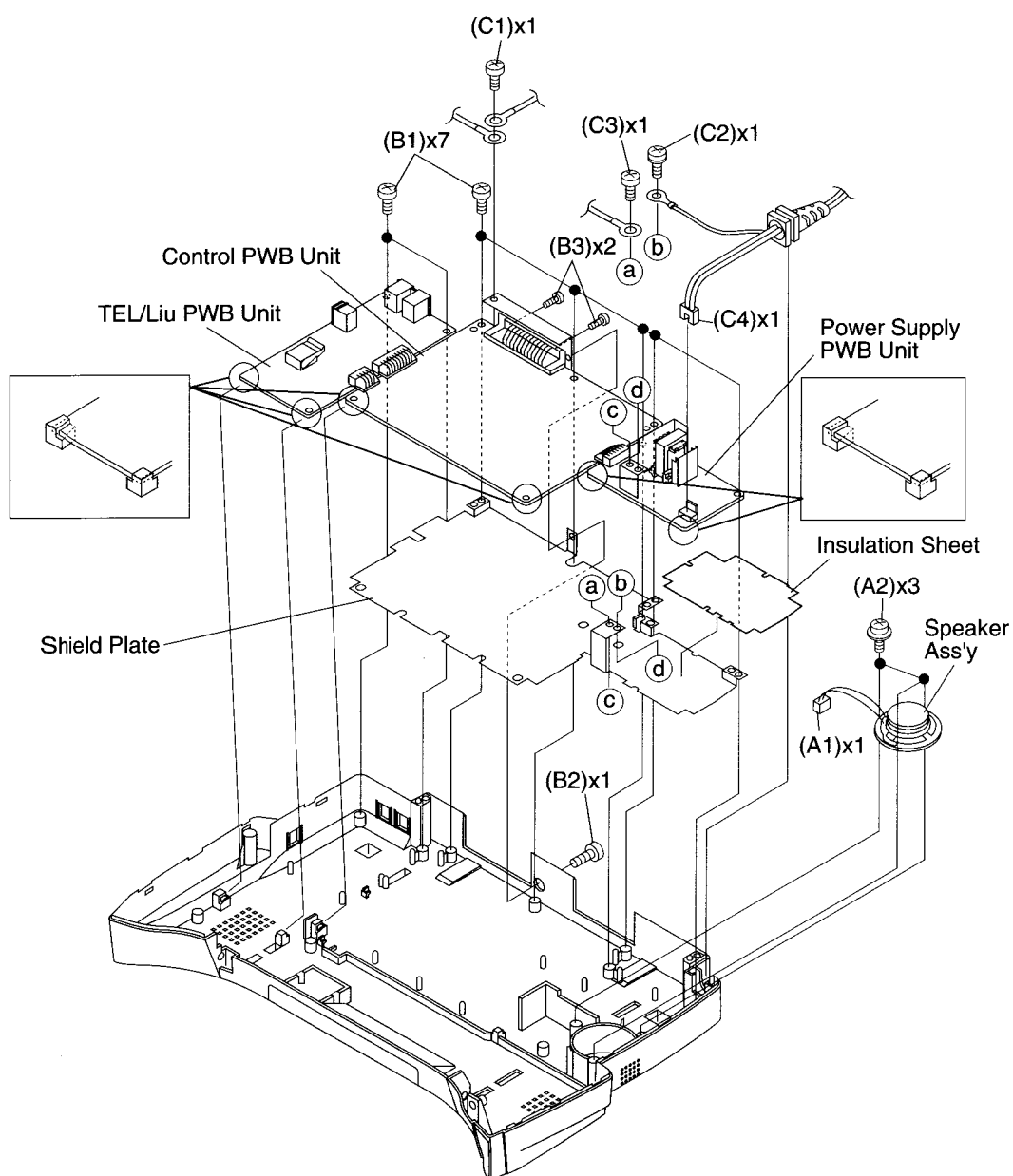


Fig. 10

11 Wire treatment

Parts list (Fig. 11)

No.	Part name	Q'ty
1	Band	3
2	Core (RCORF2064XHZZ)	2
3	Core (RCORF2096FFZZ)	1
4	Core (RCORF2063XHZZ)	1
5	Core (RCORF2103XHZZ)	1

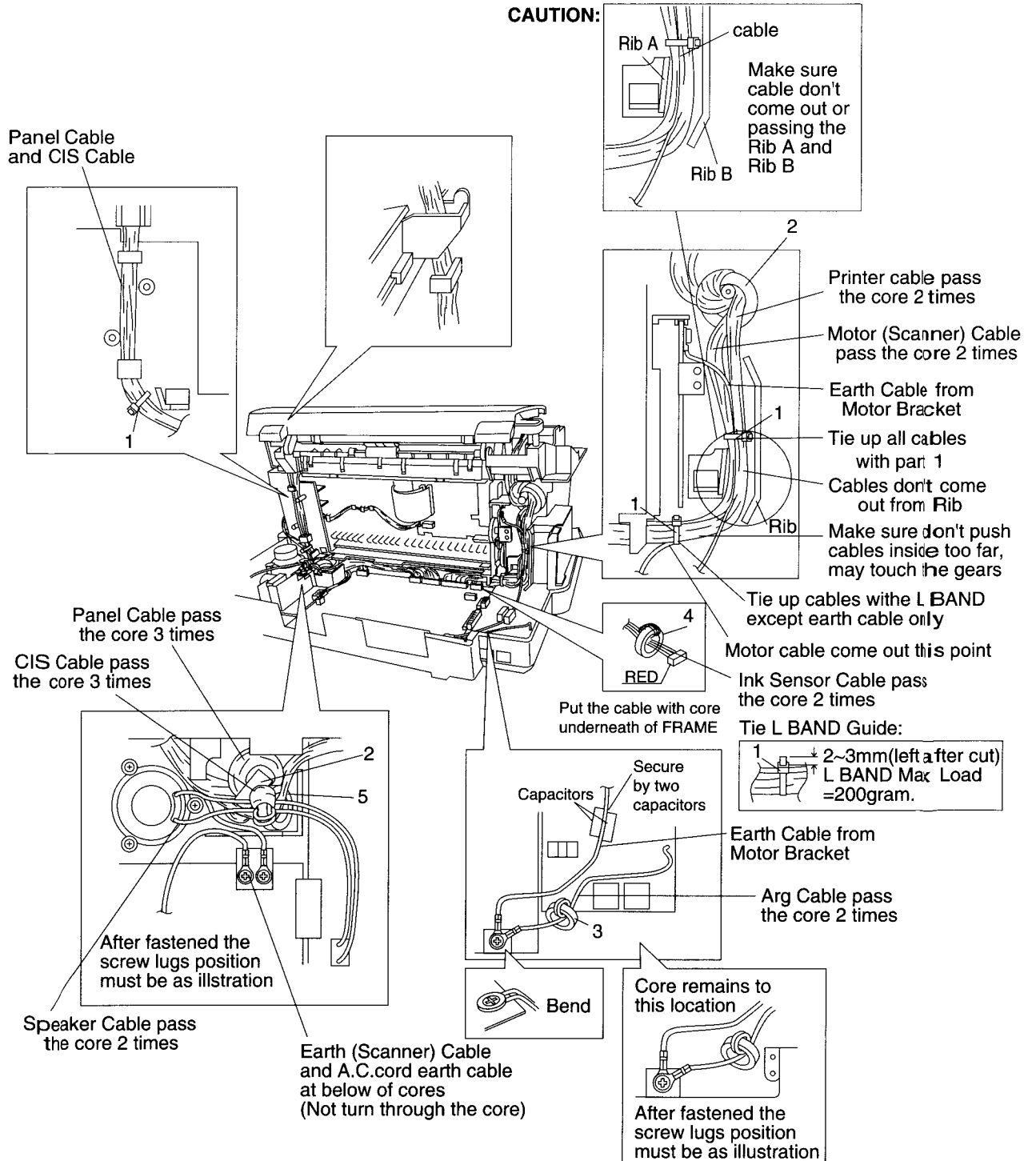
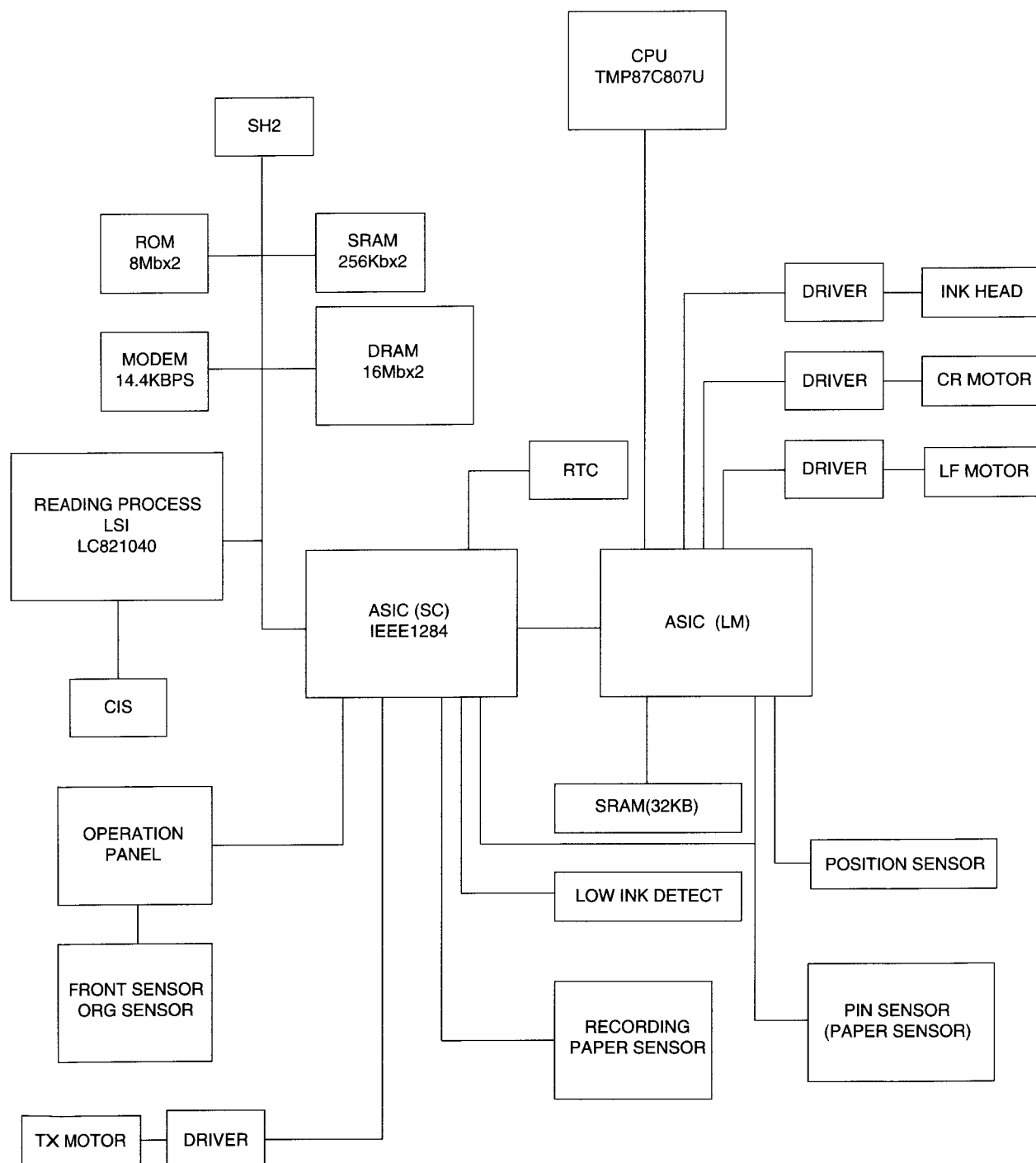


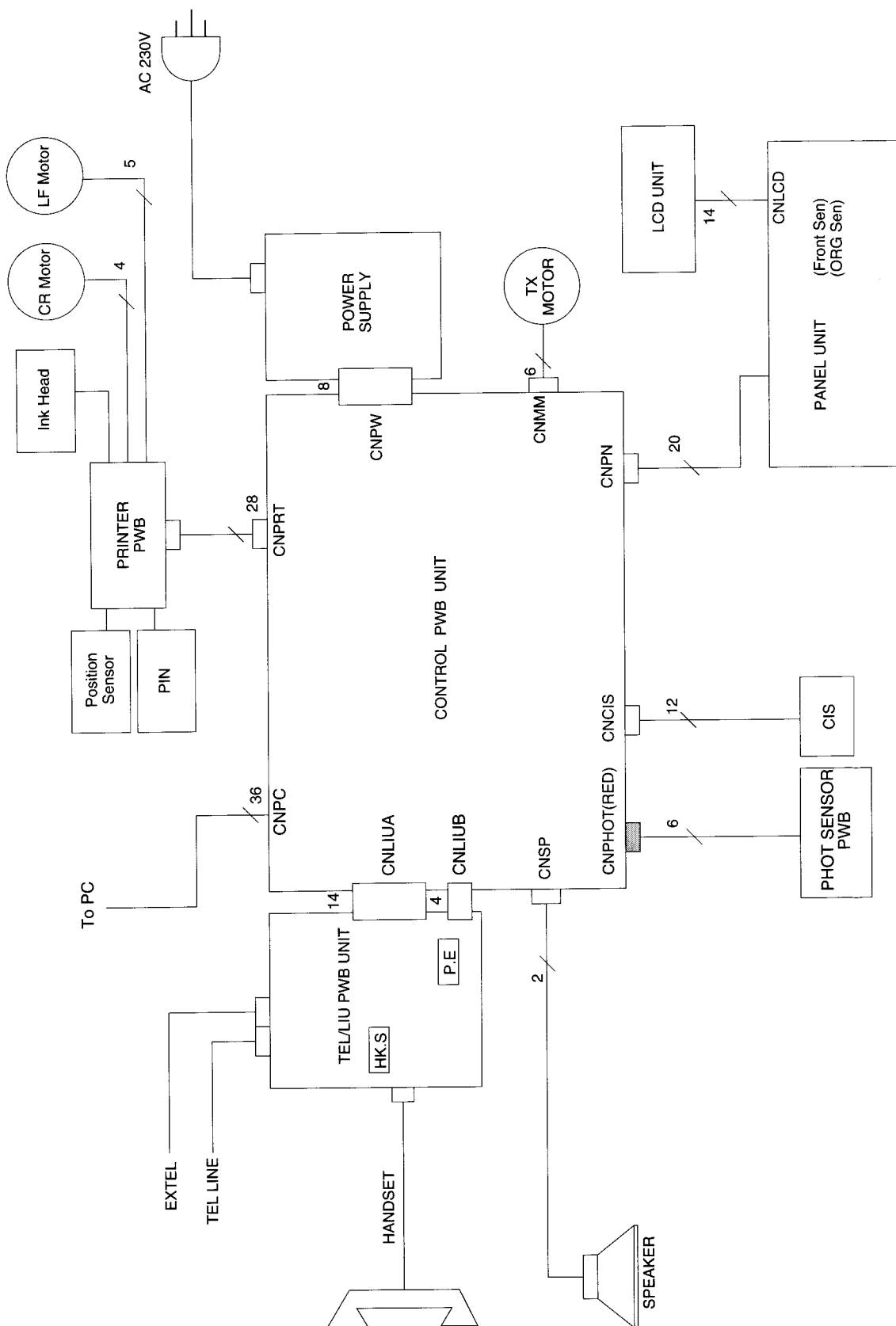
Fig. 11

CHAPTER 4. DIAGRAMS

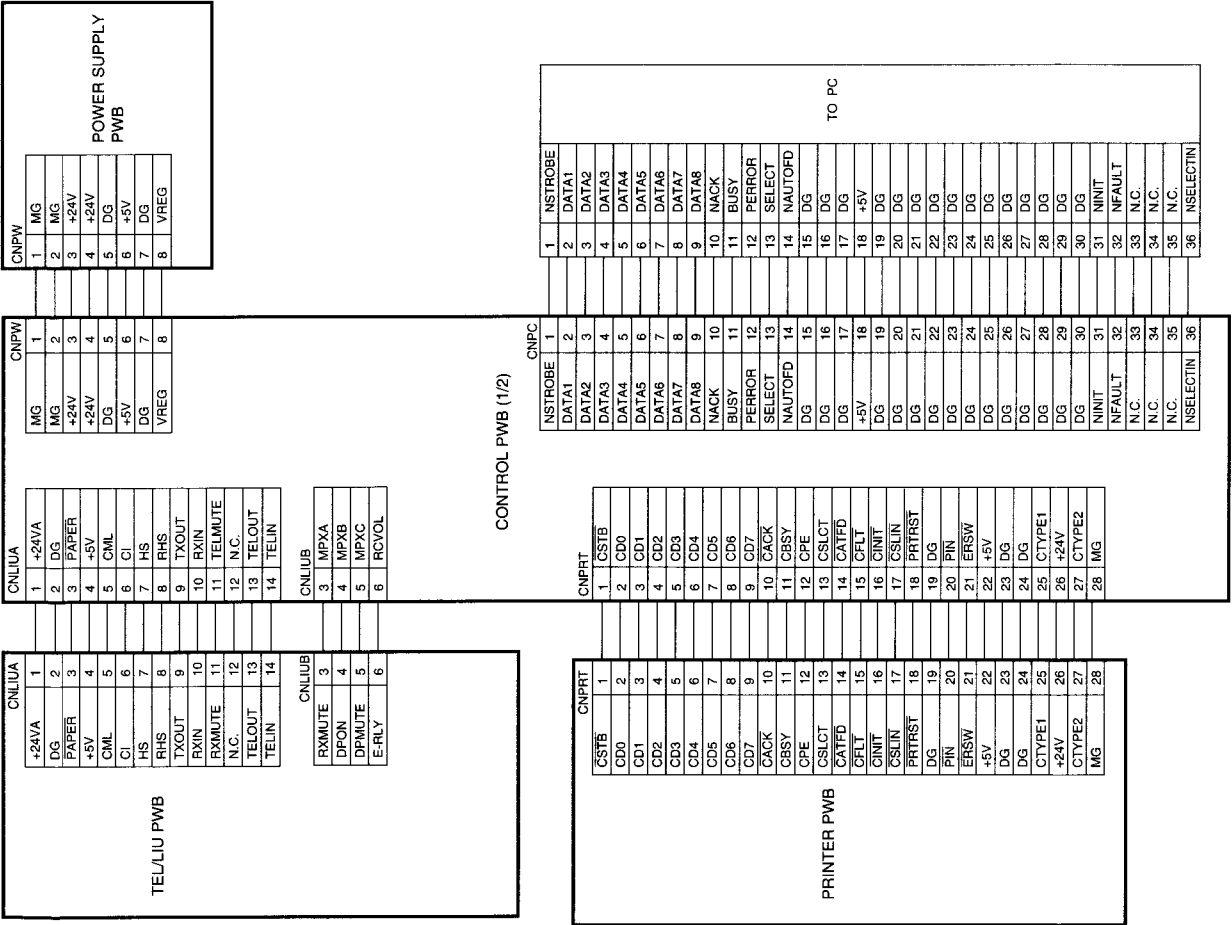


[1] Block diagram

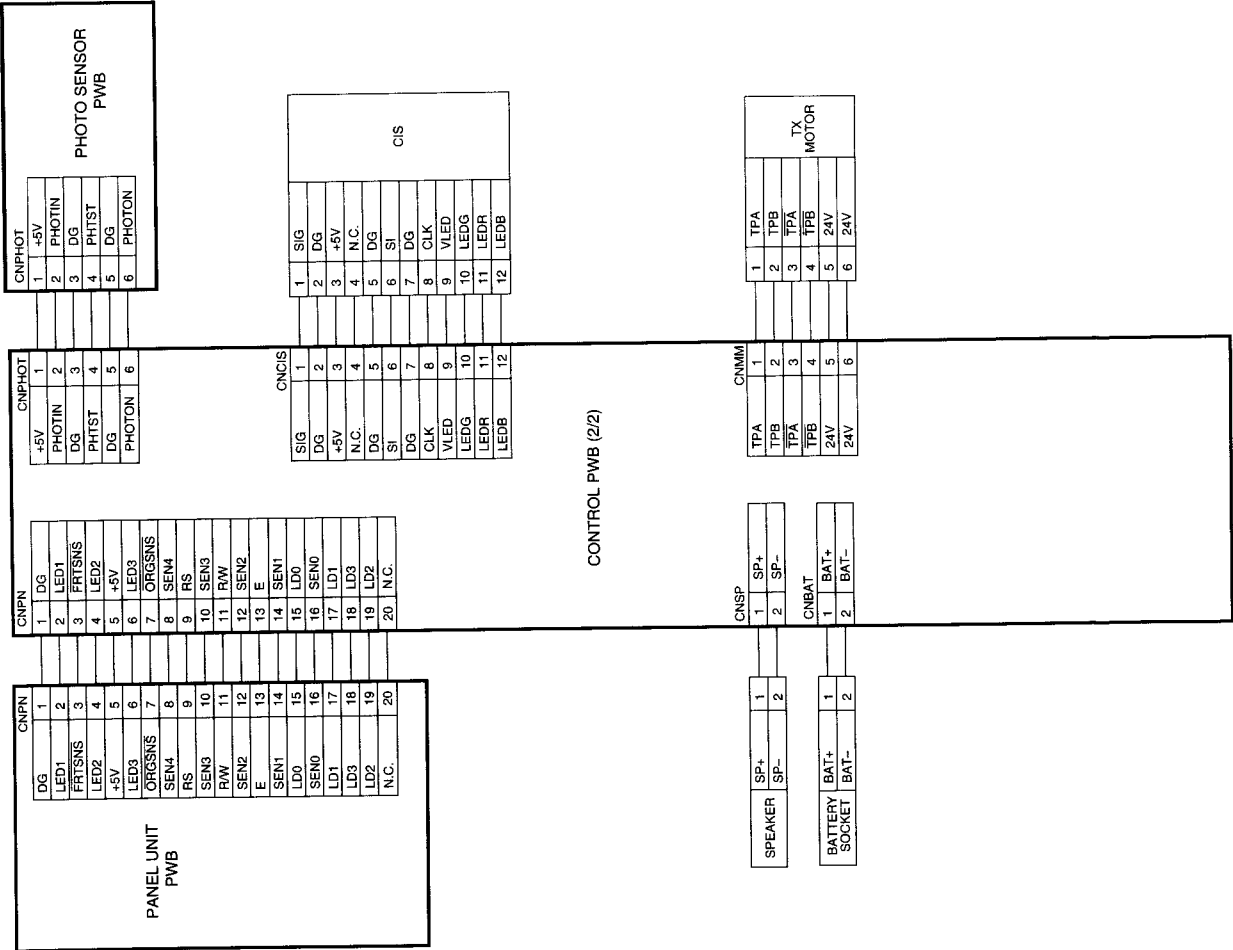
[2] Wiring diagram



[3] Point- to-point diagram



[3] Point-to-point diagram



CHAPTER 5. CIRCUIT DESCRIPTION

[1] Circuit description

1. General description

The compact design of the control PWB is obtained by using Risc Processor (CPU) in the main control section and high density printing of surface mounting parts. Each PWB is independent according to its function as shown in Fig. 1.

2. PWB configuration

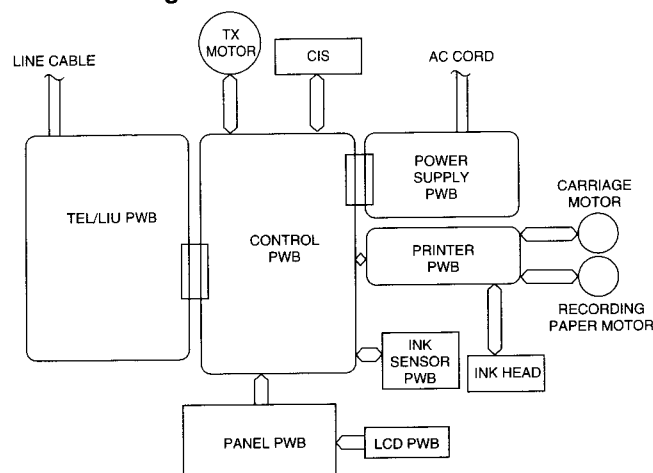


Fig. 1

1) Control PWB

The control PWB controls peripheral PWBs, mechanical parts, transmission, and performs overall control of the unit. This machine employs a 1-chip modem (R144AFXL) which is installed on the control PWB.

2) TEL/LIU PWB

This PWB controls connection of the telephone line to the unit.

3) Power supply PWB

This PWB provides voltages of +5V, VREG and +24V to the another PWB.

4) Panel PWB

The panel PWB allows input of the operation keys.

5) Printer PWB

This PWB controls the printer mechanical parts. This PWB employs 8bit CPU that is installed on printer PWB. This CPU control a printer mechanical parts.

6) LCD PWB

This PWB controls the LCD display.

7) Ink sensor PWB

This PWB examine the ink level of the cartridge.

3. Operational description

Operational descriptions are given below:

- Transmission operation

When a document is loaded in standby mode, the state of the document sensor is sensed via the CPU (SH2). If the sensor signal was on, the motor is started to bring the document into the standby position. With depression of the START key in the off-hook state, transmission takes place.

Then, the procedure is sent out from the modem and the motor is rotated to move the document down to the scan line. In the scan processor, the signal scanned by the CIS is sent to the internal image processor and the AD converter to convert the analog signal into binary data. This binary data is transferred from the scan processor to the image buffer within the RAM and encoded and stored in the transmit buffer of the RAM. The data is then converted from parallel to serial form by the modem where the serial data is modulated and sent onto the line.

- Receive operation

There are two ways of starting reception, manual and automatic. Depression of the START key in the off-hook mode in the case of manual receive mode, or CI signal detection by the LIU in the automatic receive mode.

First, the CPU(SH2) controls the procedure signals from the modem to be ready to receive data. When the program goes into phase C, the serial data from the modem is converted to parallel form in the modem interface of the 1 fax CPU(SH2) which is stored in the receive buffer of the RAM. The data in the receive buffer is decoded software-wise to reproduce it as binary image data in the image buffer. The data is DMA transferred to the recording processor within the printer control gate array which is on printer PWB and sent to the ink head. The data is printed by printer gate array and fine signal.

- Copy operation

To make a copy on this facsimile, the COPY key is pressed when the machine is in stand-by with a document on the document table and the telephone set is in the on-hook state.

First, depression of the COPY key advances the document to the scan line. Similar to the transmitting operation, the image signal from the CIS is converted to a binary signal in the DMA mode via the reading processor which is then sent to the image buffer of the RAM. Next, the data is transferred to the recording processor in the DMA mode to send the image data to the ink head which is printed swath by swath. The copying takes place as the operation is repeated.

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[2] Circuit description of control PWB

1. General description

Fig. 2 shows the functional blocks of the control PWB, which is composed of 5 blocks.

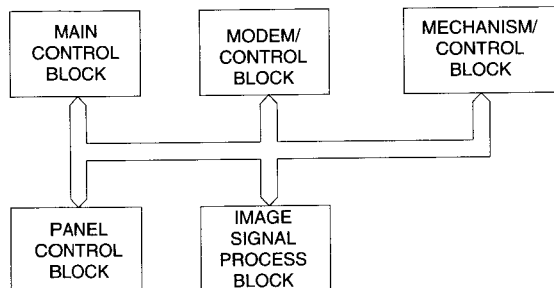


Fig. 2 Control PWB functional block diagram

2. Description of each block

(1) Main control block

The main control block is composed of HITACHI CPU (SH2), ROMX2 (256KByte), RAMX2 (32KByte), DRAMX2 (512KByte). Devices are connected to the bus to control the whole unit.

1) SH7040 (IC11) : pin-112 QFP (SH7040)

The CPU Integrated Facsimile Controllers.

SH7040(SH2), contains an internal 32 bit microprocessor with an external 16 bit address space and dedicated circuitry optimized for facsimile image processing and facsimile machine control and monitoring.

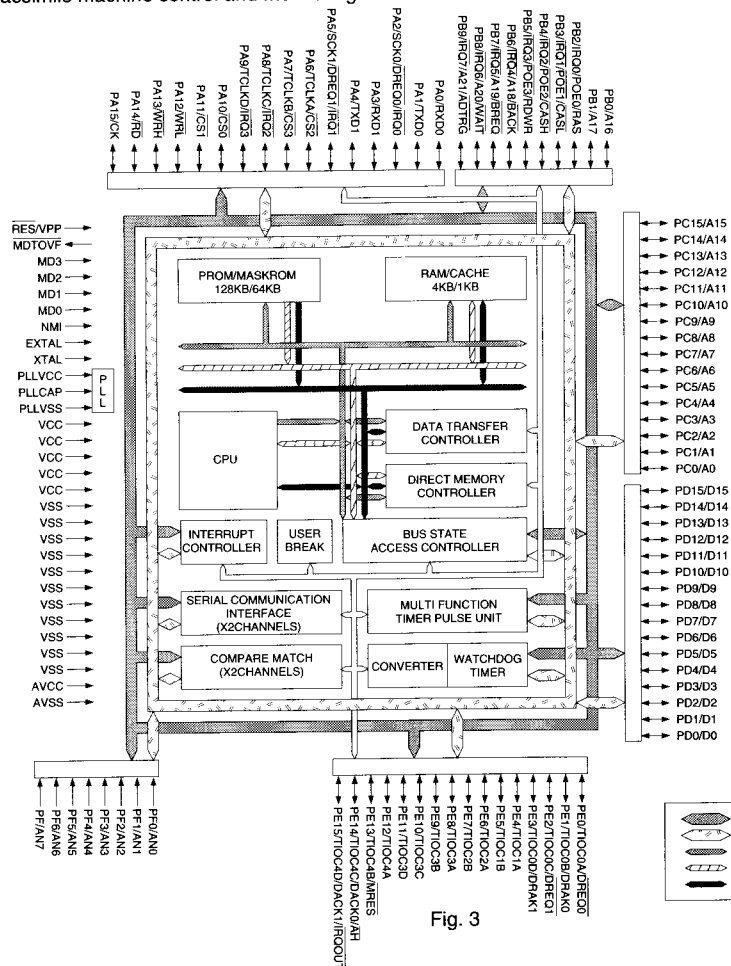


Fig. 3

2) M27C801F10 (IC17, IC18): pin-32 DIP (ROM)

EPROM of 8Mbit equipped with software for the main CPU.

3) μ PD43257BGU-70LL (IC20, IC25): pin-28 SOP (RAM)

Line memory for the main CPU system RAM area and coding/decoding process. Used as the transmission buffer.

Memory of recorded data such as daily report and auto dials. When the power is turned off, this memory is backed up by the lithium battery.

4) HY5118164JC-60 (IC19, IC24): pin-42 SOJ (RAM)

Image memory for recording process.

- Memory for recording pixel data at without paper.

SH7040 (IC11) Terminal list

QFP112 Pin No.	MCU MODE	PROM MODE
1	PE14/TIOC4C/DACK0/AH	VCC
2	PE15/TIOC4D/DACK1/IRQOUT	CE
3	VSS	VSS
4	PC0/A0	A0
5	PC1/A1	A1
6	PC2/A2	A2
7	PC3/A3	A3
8	PC4/A4	A4
9	PC5/A5	A5
10	PC6/A6	A6
11	PC7/A7	A7
12	PC8/A8	A8
13	PC9/A9	N.C.
14	PC10/A10	A10
15	PC11/A11	A11
16	PC12/A12	A12
17	PC13/A13	A13
18	PC14/A14	A14
19	PC15/A15	A15
20	PB0/A16	A16
21	VCC	VCC
22	PB1/A17	N.C.
23	VSS	VSS
24	PB2/IRQ0/POE0/RAS	N.C.
25	PB3/IRQ1/POE1/CASL	OE
26	PB4/IRQ2/POE2/CASH	PGM
27	VSS	VSS
28	PB5/IRQ3/POE3/RDWR	VCC
29	PB6/IRQ4/A18/BACK	N.C.
30	PB7/IRQ5/A19/BREQ	N.C.
31	PB8/IRQ6/A20/WAIT	N.C.
32	PB9/IRQ7/A21/ADTRG	N.C.
33	VSS	VSS
34	PA14/RD	N.C.
35	WDT0VF	N.C.
36	PA13/WRH	N.C.
37	VCC	VCC
38	PA12/WRL	N.C.
39	VSS	VSS
40	PA11/CS1	N.C.
41	PA10/CS0	N.C.
42	PA9/TCLKD/IRQ3	N.C.
43	PA8/TCLKC/IRQ2	N.C.
44	PA7/TCLKB/CS3	N.C.
45	PA6/TCLKA/CS2	N.C.
46	PA5/SCK1/DREQ1/IRQ1	N.C.
47	PA4/TXD1	N.C.
48	PA3/RXD1	N.C.
49	PA2/SCK0/DREQ0/IRQ0	N.C.
50	PA1/TXD0	N.C.
51	PA0/RXD0	N.C.
52	PD15/D15	N.C.
53	PD14/D14	N.C.
54	PD13/D13	N.C.
55	VSS	VSS
56	PD12/D12	N.C.
57	PD11/D11	N.C.
58	PD10/D10	N.C.
59	PD9/D9	N.C.

Pin No.	MCU MODE	PROM MODE
60	PD8/D8	N.C.
61	VSS	VSS
62	PD7/D7	D7
63	PD6/D6	D6
64	PD5/D5	D5
65	VCC	VCC
66	PD4/D4	D4
67	PD3/D3	D3
68	PD2/D2	D2
69	PD1/D1	D1
70	PD0/D0	D0
71	VSS	VSS
72	XTAL	N.C.
73	MD3	VCC
74	EXTAL	VSS
75	MD2	VCC
76	NMI	A9
77	VCC	VCC
78	MD1	VCC
79	MD0	VCC
80	PLL VCC	VCC
81	PLL CAP	VSS
82	PLL VSS	VSS
83	PA15/CK	N.C.
84	RES	VPP
85	PE0/TIOC0A/DREQ0	N.C.
86	PE1/TIOC0B/DRAK0	N.C.
87	PE2/TIOC0C/DREQ1	N.C.
88	PE3/TIOC0D/DRAK1	N.C.
89	PE4/TIOC1A	N.C.
90	VSS	VSS
91	PF0/AN0	VSS
92	PF1/AN1	VSS
93	PF2/AN2	VSS
94	PF3/AN3	VSS
95	PF4/AN4	VSS
96	PF5/AN5	VSS
97	AVSS	VSS
98	PF6/AN6	VSS
99	PF7/AN7	VSS
100	AVCC	VCC
101	VSS	VSS
102	PE5/TIOC1B	N.C.
103	VCC	VCC
104	PE6/TIOC2A	N.C.
105	PE7/TIOC2B	N.C.
106	PE8/TIOC3A	N.C.
107	PE9/TIOC3B	N.C.
108	PE10/TIOC3C	N.C.
109	VSS	VSS
110	PE11/TIOC3D	N.C.
111	PE12/TIOC4A	N.C.
112	PE13/TIOC4B/MRES	N.C.

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SH7040 (IC11) Terminal function

Classification	Symbol	Input/Output	Name	Function
Power	Vcc	Input	Power	Connect the Vcc terminal to the power of all systems. Operation is not performed if there is open terminal.
	Vss	Input	Ground	Connect to the ground. Connect the Vss terminal to the ground of all systems. Operation is not performed if there is open terminal.
	Vpp	Input	Program power	In case of normal operation connect to the power (Vcc). In the PROM mode 12.5V is applied.
Clock	PLLvcc	Input	Power for PLL	Power for built-in PLL oscillator.
	PLLvss	Input	Ground for PLL	Ground for built-in PLL oscillator.
	PLLCAP	Input	Capacity for PLL	Externally provided capacity terminal for built-in PLL oscillator.
	EXTAL	Input	External clock	Connect the crystal oscillator. It is possible to input also the external clock to the EXTAL terminal.
	EXTAL	Input	Crystal	Connect the crystal oscillator.
	CK	Output	System clock	The system clock is supplied to the peripheral device.
System control	$\overline{\text{RES}}$	Input	Power-on reset	When Low Level is applied to this terminal, power-on reset state is generated.
	$\overline{\text{MRES}}$	Input	Manual reset	When Low Level is applied to this terminal, the manual reset state is generated.
	$\overline{\text{WDTOVF}}$	Output	Watch dog timer overflow	Overflow output signal from WDT.
	$\overline{\text{BREQ}}$	Input	Bus right request	Low level is generated when the external device requestes release of bus right.
	$\overline{\text{BACK}}$	Output	Bus right request acknowledge	It is indicated that the bus right has been released for the external device. The device which output the BREQ signal receives the BACK signal, thereby allowing to know that the bus right has been obtained.
Operation mode control	MD0 ~ MD3	Input	Mode setting	Terminal to decide the operation mode. During operation do not change the input value.
Interruption	NMI	Input	Nonmaskable interruption	Nonmaskable interruption request terminal. It is possible to select reception at rise edge or fall edge.
	$\overline{\text{IRQ0}} \sim \overline{\text{IRQ7}}$	Input	Interruption request 0 to 7	Maskable interruption request terminal. It is possible to select level input and edge input.
	$\overline{\text{IRQOUT}}$	Output	Interruption request output	Indicates occurrence of interruption factor. Occurrence of interruption can be known also during bus release.
Address bus	A0 ~ A21	Output	Address bus	Address is output.
Data bus	D0 ~ D15 (QFP-112) D0 ~ D31 (QFP-144)	Output	Data bus	16-bit (QFP-112 pin type) or 32-bit (QFP-144 pin type) two-direction data bus.
Bus control	$\overline{\text{CS0}} \sim \overline{\text{CS3}}$	Output	Chip selection 0 to 3	Chip selection signal for external memory or device.
	$\overline{\text{RD}}$	Output	Reading	Indicates reading from the external device.
	$\overline{\text{WRH}}$	Output	High-order side writing	Indicates writing into high-order 8 bits (bit 15 to 8) of external data.
	$\overline{\text{WRL}}$	Output	Low-order side writing	Indicates writing into Low-order 8 bits (bit 7 to 0) of external data.
	$\overline{\text{WAIT}}$	Input	Wight	Input to insert the weight cycle into bus cycle when access to the external space is made.
	$\overline{\text{RAS}}$	Output	Low address strobe	Dram low address strobe timing signal.

SH7040 (IC11) Terminal function

Classification	Symbol	Input/Output	Name	Function
Bus control	CASH	Output	High-order column address strobe	DRAM column address strobe timing signal. It is output when access to high-order 8bits of data is made.
	CASL	Output	Low order column address strobe	DRAM column address strobe timing signal.
	RDWR	Output	Dram reading/writing	DRAM writing strobe signal.
	AH	Output	Address hold	Address hold timing signal for the device which used address/data multiplex bus.
	WRHH(QFP-144)	Output	HHside writing	Indicates that bit 24 is written from bit 31 of external data.
	WRHL(QFP-144)	Output	HLside writing	Indicates that bit 15 is written from bit 23 of external data.
	CASHH(QFP-144)	Output	HH side column address strobe	DRAM column address strobe timing signal. It is output when access to bit 24 from bit 31 of data is made.
	CASHL(QFP-144)	Output	HL side column address strobe	DRAM column address strobe timing signal. It is output when access to bit 16 from bit 23 of data is made.
Multifunction timer pulse unit	TCLKA TCLKB TCLKC TCLKD	Input	MTU timer clock input	MTU counter external clock input terminal.
	TIOC0A TIOC0B TIOC0C TIOC0D	Input/output	MTU input capture/ output conveyer (channel 0)	Channel 0 input capture input/output conveyer output/PWM output terminal.
	TIOC1A TIOC1B	Input/output	MTU input capture/ output conveyer (channel 1)	Channel 1 input capture input/output conveyer output/PWM output terminal.
	TIOC2A TIOC2B	Input/output	MTU input capture/ output conveyer (channel 2)	Channel 2 input capture input/output conveyer output/PWM output terminal.
	TIOC1A TIOC1B	Input/output	MTU input capture/ output conveyer (channel 3)	Channel 3 input capture input/output conveyer output/PWM output terminal.
	TIOC1A TIOC1B	Input/output	MTU input capture/ output conveyer (channel 4)	Channel 4 input capture input/output conveyer output/PWM output terminal.
Direct memory access controller (DMAC)	DREQ0 DREQ1	Input	DMA transfer request (channel 0,1)	From-external DMA transfer request input terminal.
	DRAK0 DRAK1	Output	DREQ request reception (channel 0,1)	From-external DMA transfer request input sampling reception is output.
	DACK0 DACK1	Output	DMA transfer strobe (channel 0,1)	From-external DMA transfer request external I/O strobe is output.
Serial communication interface (SCI)	TxD0 TxD1	Output	Transmission data (channel 0 to 1)	SCI 0 and 1 transmission data output terminal.
	RxD0 RxD1	Input	Reception data (channel 0 to 1)	SCI 0 and 1 reception data input terminal.
	SCK0 SCK1	Input/output	Serial clock (channel 0 to 1)	SCI 0 and 1 clock input/output terminal.
A.D converter	AVcc	Input	Analog power	Analog power Vcc potential is connected.
	AVss	Input	Analog ground	Analog power Vss potential is connected.
	AVref (QFP-144)	Input	Analog reference power	Analog reference power input terminal.
	AN0 ~ AN7	Input	Analog input	Analog signal input terminal.
	ADTRG	Input	A/D conversion trigger input	A/D conversion state external trigger input.

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SH7040 (IC11) Terminal function

Classification	Symbol	Input/Output	Name	Function
I/O port	POE0 ~ POE3	Input	Port output enable	Input terminal to perform port terminal drive control when the general-use port is set to output.
	PA0 ~ PA15 (QFP-112) PA0 ~ PA23 (QFP-144)	Input/output	General use port	General-use input/output port terminal. It is possible to specify input/output for each bit.
	PB0 ~ PB9	Input/output	General use port	General-use input/output port terminal. It is possible to specify input/output for each bit.
	PC0 ~ PC15	Input/output	General use port	General-use input/output port terminal. It is possible to specify input/output for each bit.
	PD0 ~ PD15 (QFP-112) PD0 ~ PD31 (QFP-144)	Input/output	General use port	General-use input/output port terminal. It is possible to specify input/output for each bit.
	PE0 ~ PE15 PF0 ~ PF7	Input/output Input	General use port General use port	General-use input/output port terminal. It is possible to specify input/output for each bit. General-use input port terminal.

(2) Panel control block

The following controls are performed by the Gate array (LZ9FJ49).

- Operation panel key scanning
- Operation panel LCD display

(3) Mechanism/recording control block

The following controls are performed by Gate array (LZ9FJ49).

- TX Motor control

The following controls are performed by CPU (SH2).

- Sensor detection

The following controls are performed by Gate array (TC190G04:PRINTER PWB).

- Carrier Motor control
- Feed Motor control

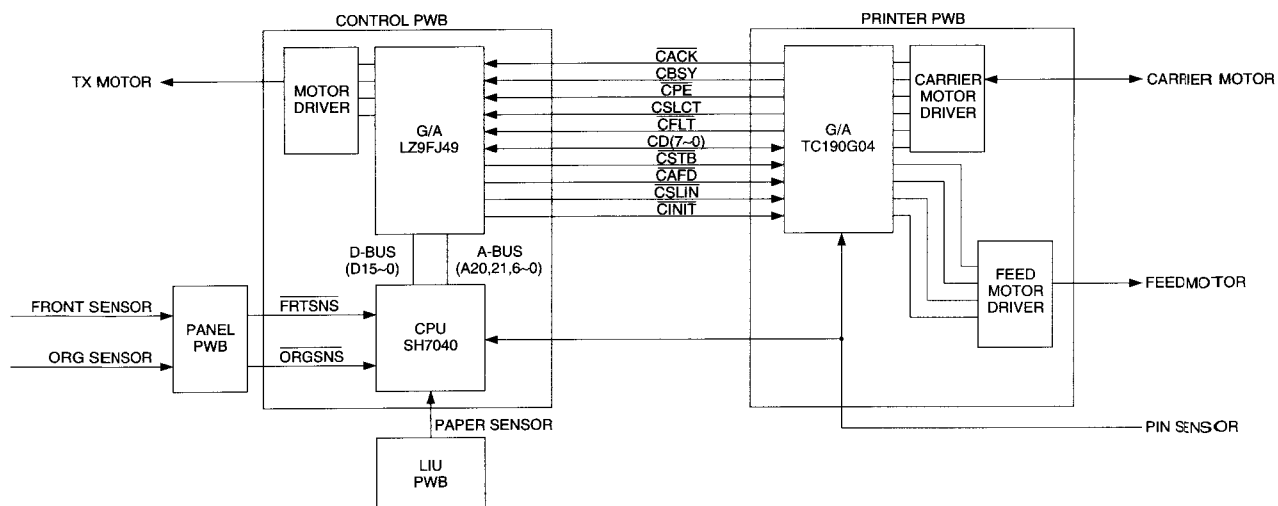


Fig. 4

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(4) Modem (R144EFL) block

INTRODUCTION

The Rockwell R144EFL MONOFAX modem is a synchronous 14400 bits per second (bps) half-duplex modem with error detection and DTMF reception. It has low power consumption and requires only a single +5V DC power supply. The modem is housed in a single VLSI device package.

The modem can operate over the public switched telephone network (PSTN) through line terminations provided by a data access arrangement (DAA).

The R144EFL is designed for use in Group 3 facsimile machines.

The modem satisfies the requirements specified in CCITT recommendations V.29, V.27 ter, V.21 Channel 2 and T.4, and meets the binary signaling requirements of T.30.

The modem can operate at 14400, 9600, 7200, 4800, 2400, or 300 bps, and also includes the V.27 ter short training sequence option.

The modem can also perform HDLC framing according to T.30 at 14400, 9600, 7200, 4800, 2400, or 300 bps.

The modem features a programmable DTMF receiver and three programmable tone detectors which operate concurrently with the V.21 channel 2 receiver.

The voice mode allows the host computer to efficiently transmit and receive audio signals and messages.

The modem is available in either a 100-pin plastic quad flat pack (PQFP) or a 64-pin quad in-line package (QUIP).

General purpose input/output (GPIO) pins are available for host as signment in the 100-pin PQFP.

The modem's small size, single voltage supply, and low power consumption allow the design of compact system enclosures for use in both office and home environments.

MONOFAX is a registered trademark of Rockwell International.

FEATURES

- Group 3 facsimile transmission/reception
 - ITU-TS V.29, V.27 ter, T.30, V.21 Channel 2, T.4
 - HDLC Framing at all speeds
- V.27 ter short train
- Concurrent DTMF, FSK, and tone reception
- Voice mode transmission/reception
- Half-duplex (2-wire)
- Programmable maximum transmit level:
 - 0 dBm to -15 dBm
- Programmable transmit analog attenuation:
 - 0 dB to 14 dB in 2 dB steps
- Receive dynamic range: 0 dBm to -43 dBm
- Programmable dual tone generation
- Programmable tone detection
- Programmable turn-on and turn-off thresholds
- Programmable interface memory interrupt
- Diagnostic capability
 - Allows telephone line quality monitoring
- Equalization
 - Automatic adaptive equalizer
 - Fixed digital compromise equalizer
- DTE interface: two alternate ports
 - Selectable microprocessor bus (6500 or 8085)
 - CCITT V.24 (EIA-232-D compatible) interface
- TTL and CMOS compatible
- Low power consumption: 275 mW (typical)
- Single Package
 - 100-pin PQFP
 - 64-pin QUIP
- Single +5VDC power supply

R144EFL (IC16) Hardware Interface Signals

Pin No.	Signal Name	I/O Type
1	GP03	IA/OB
2	GP04	IA/OB
3	GP05	IA/OB
4	GP06	IA/OB
5	GP07	IA/OB
6	0VD2	GND
7	0VD2	GND
8	D7	IA/OB
9	D6	IA/OB
10	D5	IA/OB
11	D4	IA/OB
12	D3	IA/OB
13	D2	IA/OB
14	D1	IA/OB
15	D0	IA/OB
16	0VD2	GND
17	0VA	GND
18	RAMPIN	R
19	NC	
20	NC	
21	0VA	GND
22	+5VD2	PWR
23	0VD1	GND
24	SWGAINI	R
25	ECLKIN1	R
26	SYNCIN1	R
27	NC	
28	NC	
29	NC	
30	0VA	GND
31	NC	
32	NC	
33	NC	
34	DAIN	R
35	ADOUT	R
36	BYPASS	IC
37	RCVI	R
38	TXLOSS3	IC
39	TXLOSS2	IC
40	TXLOSS1	IC
41	NC	
42	NC	
43	0VA	GND
44	TXOUT	AA
45	RXIN	AB
46	+5VA	PWR
47	0VA	GND
48	AGD	R
49	AOUT	R
50	0VD1	GND
51	NC	
52	IRQ	OC
53	WRITE-R/W	IA
54	CS	IA
55	READ-φ2	IA
56	RS4	IA
57	RS3	IA
58	RS2	IA
59	RS1	IA

Pin No.	Signal Name	I/O Type
60	RS0	IA
61	GP13	IA/OB
62	NC	
63	GP11	IA/OB
64	RTS	IA
65	EN85	R
66	0VD2	GND
67	POR1	ID
68	XTLI	R
69	XTLO	R
70	XCLK	OD
71	YCLK	OD
72	+5VD1	PWR
73	DCLK1	R
74	SYNCIN2	R
75	GP16	IA/OB
76	GP17	IA/OB
77	0VD2	GND
78	CTS	OA
79	TXD	IA
80	0VD2	GND
81	0VD2	GND
82	DCLK	OA
83	EYESYNC	OA
84	EYECLKX	OA
85	EYECLK	OA
86	EYEX	OA
87	ADIN	R
88	DAOUT	R
89	0VD2	GND
90	EYEX	OA
91	GP21	IA/OB
92	0VD2	GND
93	GP20	IA/OB
94	GP19	IA/OB
95	RXD	OA
96	RLSD	OA
97	0VD2	GND
98	RCVO	R
99	SWGAINO	R
100	GP02	IA/OB

Notes:

1. NC = No connection; leave pin disconnected (open) .
2. R = Required modern inter-connection; no connection to host equipment.

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(5) Image signal process block

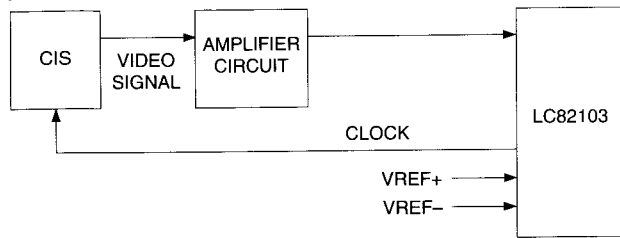


Fig. 5

The CIS is driven by the LSI (LC82103), and the output video signal from the CIS is input into the LC82103 through the amplifying circuit. The ADC and buffer are provided in the LC82103, and the digital image processing is performed.

(6) Speaker amplifier

The speaker amplifier monitors the line under the on-hook mode, outputs the buzzer sound generated from the SH7040, ringer sound, DTMF generated from the modem, and line sound.

(7) Adjustment of voice/ringer volume

The voice/ringer volume can be adjusted by using the panel buttons "UP" and "DOWN".

- The ringer volume can be adjusted in the Stand-by mode by pressing the UP/DOWN button.
- The reception level can be adjusted by pressing the UP/DOWN button when the handset is located in the off-hook state.
- The speaker volume can be adjusted by using the speaker key.

[3] Circuit description of TEL/LIU PWB

(1) TEL/LIU block operational description

1) Block diagram

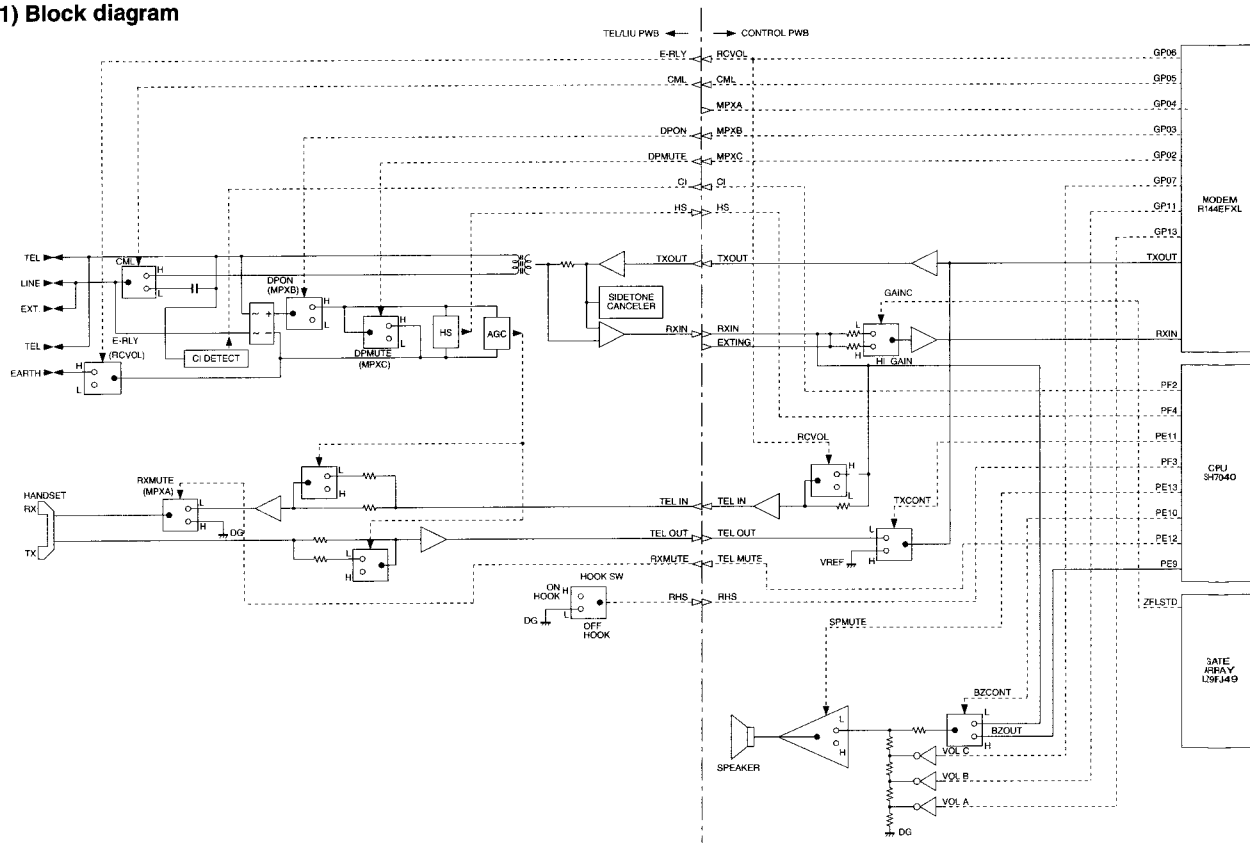


Fig. 6

2) Circuit description

The TEL/LIU PWB is composed of the following 10 blocks.

1. Surge protection circuit
2. Noise filter
3. Dial pulse generation circuit
4. CML relay
5. Matching transformer
6. Hybrid circuit
7. Signal selection
8. Sensor circuit
9. CI detection circuit
10. Power supply and bias circuit

3) Block description

1. Surge Protection circuit

This circuit protects the circuit from the surge voltage occurring on the telephone line.

- The AR1, AR2 protects the circuit from the 425V or higher line surge voltages.

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2. Noise filter

The noise filter comprises the RF choke coil, L1, L3, L4.

3. Dial pulse generation circuit

The pulse dial generation circuit comprises the photo-coupler PC2, PC3, polarity guard REC1, and resistor R2.

The photo-coupler PC3 shunts the line current using the DP signal before transmitting the dial signal, then turns off the CML relay.

After the pulse dial signal is transmitted by turning on/off the DP signal, the CML relay is turned on again.

4. CML relay

The CML relay switches over connection to the matching transformer T1 while the FAX or built-in telephone is being used.

5. Matching transformer

The matching transformer performs electrical insulation from the telephone line and impedance matching for transmitting the TEL/FAX signal.

6. Hybrid circuit

The hybrid circuit performs 2-wire-to-4-wire conversion using the IC101 of operational amplifier, transmits the voice transmission signal to the line, and feeds back the voice signal to the voice reception circuit as the side tone.

7. Signal selection

The following signals are used to control the transmission line of TEL/FAX signal. For details, refer to the signal selector matrix table.

[Control signals from output port]

Signal Name	Description																												
CML	<u>Line connecting relay and DP generating relay</u> H: Line make L: Line break																												
SP MUTE (The circuit is located in the control PWB)	<u>Speaker tone mute control signal</u> H: Muting (Power down mode) L: Muting cancel (Normal operation)																												
RX MUTE	<u>Handset reception mute control signal</u> H: Muting L: Muting cancel																												
DP ON	<u>DP generating relay</u> H: DP make L: DP break																												
VOL A VOL B VOL C (The circuit is located in the control PWB.)	<u>Speaker volume control signal</u> VRSEL1 VRSEL2 matrix <table><tr><td></td><td>VOL A</td><td>VOL B</td><td>VOL C</td><td>RING / Receiving</td><td>Buzzer</td><td>DTMF</td></tr><tr><td></td><td>L</td><td>L</td><td>L</td><td>High</td><td>—</td><td>High</td></tr><tr><td></td><td>H</td><td>L</td><td>L</td><td>Middle</td><td>Fixed</td><td>Middle</td></tr><tr><td></td><td>L</td><td>L</td><td>H</td><td>Low</td><td>—</td><td>Low</td></tr></table>		VOL A	VOL B	VOL C	RING / Receiving	Buzzer	DTMF		L	L	L	High	—	High		H	L	L	Middle	Fixed	Middle		L	L	H	Low	—	Low
	VOL A	VOL B	VOL C	RING / Receiving	Buzzer	DTMF																							
	L	L	L	High	—	High																							
	H	L	L	Middle	Fixed	Middle																							
	L	L	H	Low	—	Low																							
TXCONT (The circuit is located in the control PWB.)	<u>TXOUT mute signal</u> H: Signal sending, when transmitting L: During reception, transmission mute, (during standby)																												
GAIN-C (The circuit is located in the control PWB.)	<u>Reception gain switching signal</u> L: When connected to line, 1: 1 gain H: When not connected to line, HIGH gain																												
BZCONT (The circuit is located in the control PWB.)	<u>Speaker output signal switching</u> H: Buzzer signal output L: When monitoring line signal																												

[Signals for status recognition according to input signals]

Signal Name	Function
RHS	H: The handset is in the on-hook state. L: The handset is in the off-hook state.
CI	Incoming call (CI) detection signal.
PE	L: No recording paper. H: Recording paper exists.
DRSNS	H: Door open. L: Door close.

[Other signals]

Signal Name	Function
TEL IN	Receiving signal from line or modem
TEL OUT	Transfer signal to line
TXOUT	Transmission (DTMF) analog signal output from modem
RXIN	Reception (DTMF, others) analog signal input into modem

NO	Signal Name (CNLIUA)	NO	Signal Name (CNLIUA)
1	+24VA	8	RHS
2	DG	9	TXOUT
3	PE	10	RXIN
4	+5V	11	TELMUTE
5	CML	12	DRSNS
6	CI	13	TELOUT
7	HS	14	TELIN

NO	Signal Name (CNLIUB)	NO	Signal Name (CNLIUB)
1	EXTSIG	4	DPON
2	TELMUTE2	5	DPMUTE
3	RXMUTE	6	E-RLY

8. Sensor circuit

For the recording paper sensor ($\overline{PE}$), when there is recording paper, the photo transistor in the light receiving side is ON and the detection level is LOW. When there is no recording paper, the photo transistor in the light receiving side is OFF and the detection level is HIGH.

9. CI detection circuit

The CI detection circuit detects the CI signals. A CI signal, which is provided to the photo-coupler PC5 through the C5 (0.56 μ F), R1 (22 K), and ZD8 when the ring signal is inputted from the telephone line.

10. Power supply and bias circuits

The voltages of +5V and +24VA are supplied from the control PWB unit.

(Example: Fax signal send)

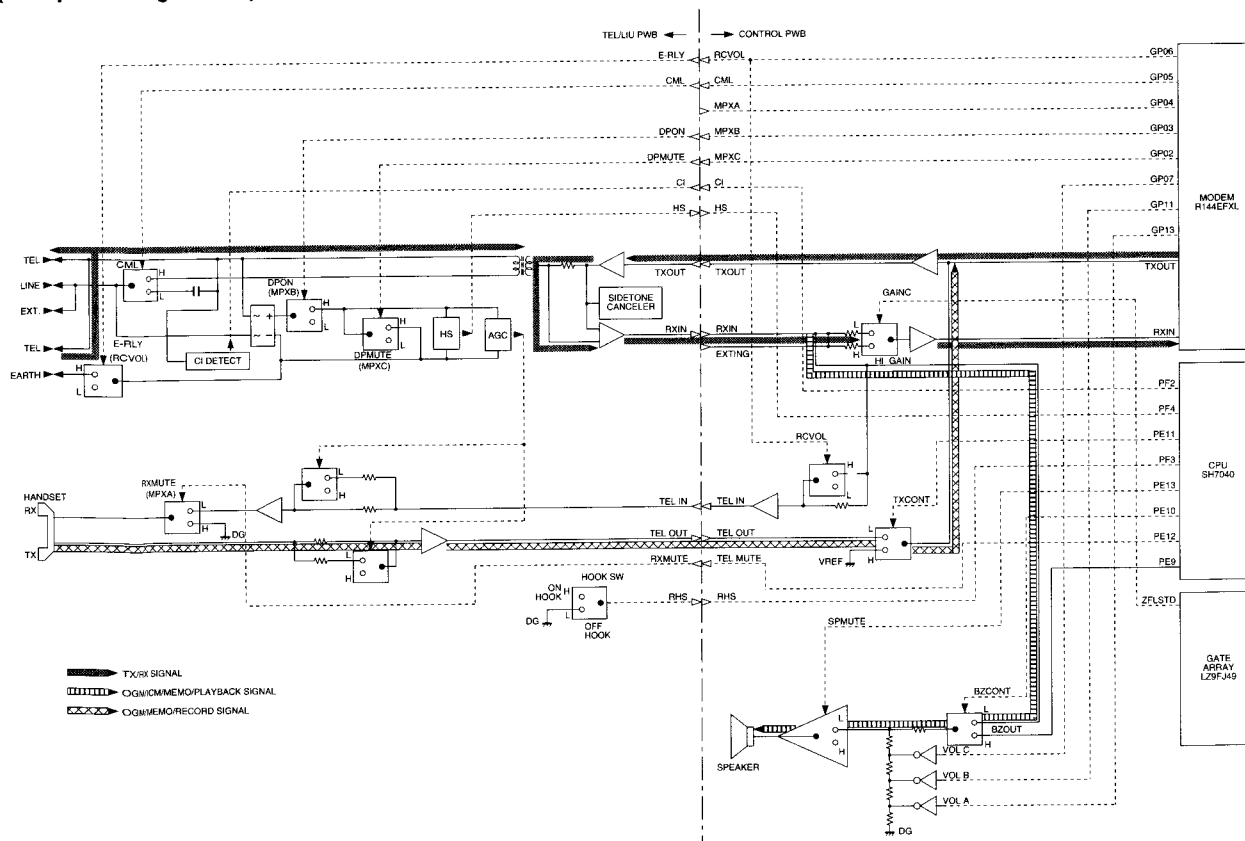


Fig. 7

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[4] Circuit description of power supply PWB

1. Block diagram

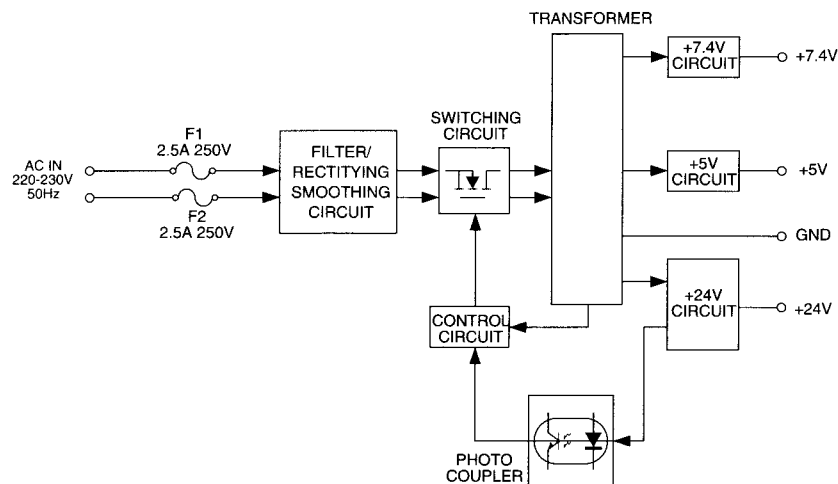


Fig. 8

The power unit intakes input of AC 230-240V, 50 Hz and supplies output of +24V, +7.4V and +5V as shown in the block diagram. (See Fig. 8.)

2-1. Filter, rectifying and smoothening circuit

In the filter section, the noise generated from the power unit is eliminated from being discharged to the external, and external noise is prevented from entering. Thunder or other excessive surge is prevented by the varistor Z1.

In the rectifying and smoothening section, AC input is rectified by the diodes D10, 11, 12 and 13, and is smoothened by the capacitor C5. Thus, DC voltage is supplied to the switching section. Moreover, the thermistor NTC1 prevents surge current when the power is turned on.

2-2. Switching section

The circuit uses the ringing choke converter of a self-excited type. Since MOS.

FETQ1 is repeatedly turned on and off in this system, the DC voltage supplied from the rectifying and smoothening section is converted into the high frequency pulses. While Q1 is on, energy is accumulated in the primary winding of the transformer T1, and while Q1 is off, energy is discharged to the secondary side. Thus, the power is supplied.

Moreover, the frequency is varied depending on the load of the output. As the load becomes the heavier, the frequency becomes the smaller to extend the ON period.

The constant voltage is controlled by applying the feedback to the con-

trol circuit through the photo coupler PC1 from +24V output. The overcurrent-protective circuit detects that the ON period becomes the wider as the output load becomes the heavier. For the control, the OFF period is extended by the control circuit to squeeze the energy which is accumulated in the primary winding of the transformer T1.

For protection against overvoltage, the rise of the output voltage of +24V on the secondary side is brought into the overcurrent state through the continuity of the power zener diode D104 between +24V output and GND. Thus, the overcurrent-protective circuit of the control circuit is activated for the protection.

2-3. +24V circuit

Output is supplied by rectifying and smoothening the output of the transformer T1 with the diode D101 and capacitor C101.

2-4. +5V circuit

+5 V output is generated by rectifying and smoothening the output of the transformer T1 with the diode D102 and capacitor C102 and stabilizing it with the 3-terminal regulator IC103.

2-5. +7.4V circuit

This circuit rectifies and smoothenings the high-frequency pulse voltage, and output the DC +7.4V to the equipment.

[5] Circuit description of CIS PWB

The CIS board picks up optical information from the document, converts it into an electrical (analog) signal and transfers it to the control board.

(1) Block diagram

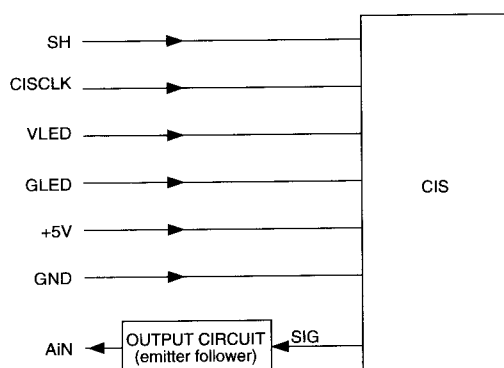


Fig. 9

(2) Description of blocks

1. CIS

The GK3R216SH is a highly sensitive charged coupled image sensor that consists of 2552 picture elements.

Receiving four drive signal (SI,CLK) from the control board, the tranferred photoelectric analog signal SIG is impedance converted, and the signal AiN, is supplied to the control board.

2. Waveforms

1. CLK, SI, SIG signals within the control board.

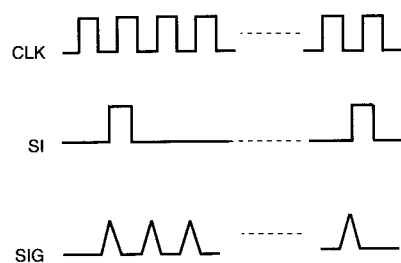


Fig. 10

3. Wave level auto control

- When shading, each color (G,R,B) output level are checked, and adjust best level by its led on time.
- When color mode scanning, 3 colors on.
When B/W mode scanning, G&R colors on.
When B/W H-T mode scanning, 3 colors on.

COLOR MODE

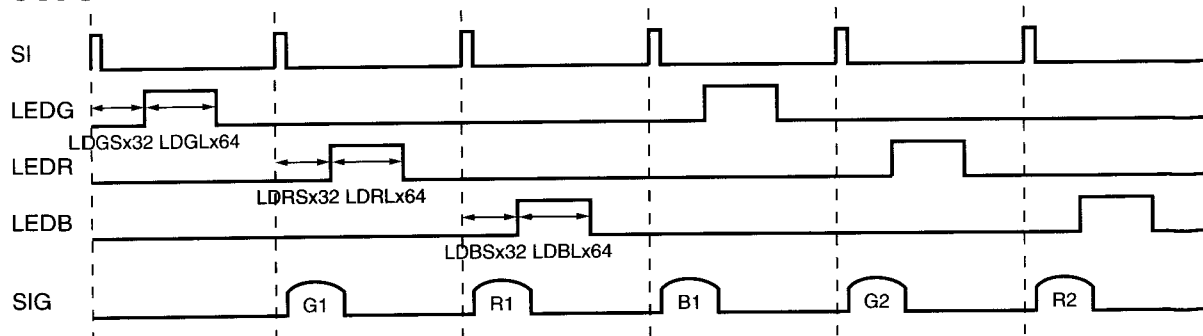


Fig. 11

B/W MODE

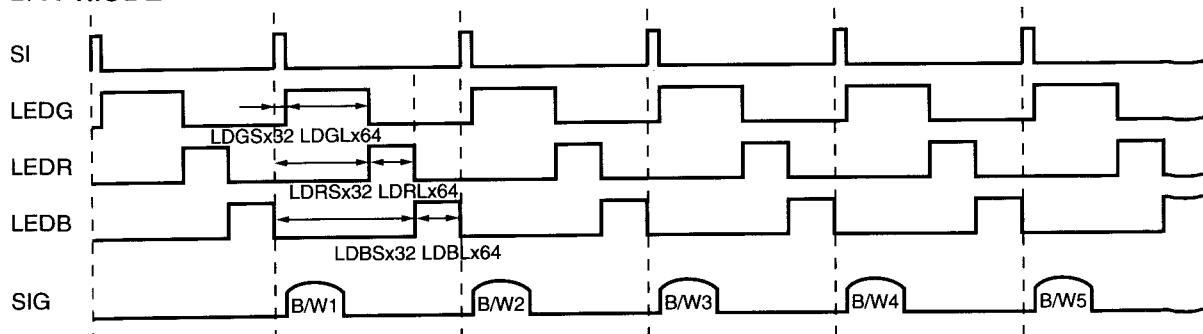


Fig. 12

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[6] Color scanner block

The block (Fig. 1) is composed of color contact image sensor (GK3R216SH). GK3R216SH is the color tight-contact type image sensor (CIS) with scanning width 216 mm which consists of rod lens array, LED light source and sensor PWB. The light source is composed of three-color (blue, green, red) LEDs.

(GK3R216SH)

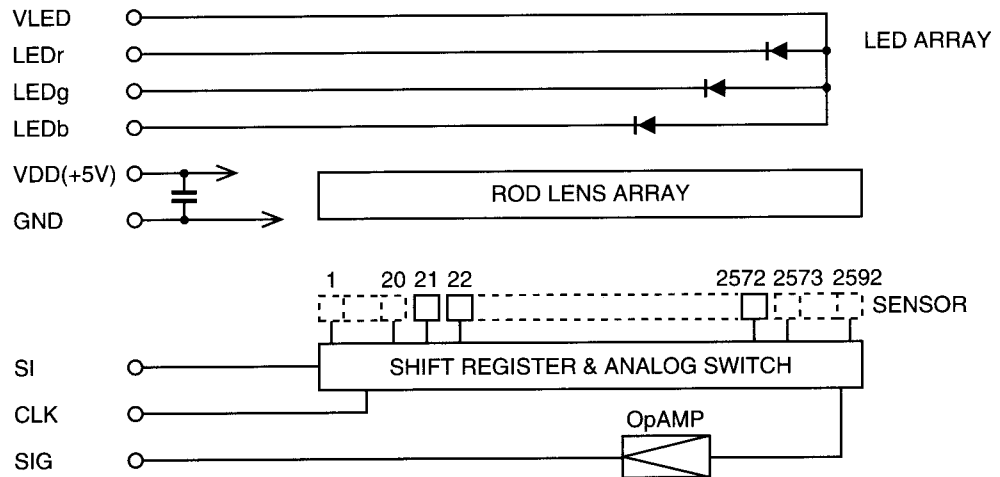


Fig. 1

Specification

Effective scanning width	: 216 mm
Picture element density	: 300 dpi
Number of effective picture elements	: 2,552 dots
LED light source wavelength	
Red	: 640±15 nm (35 mA)
Green	: 525±20 nm (50 mA)
Blue	: 470±15 nm (50 mA)

The analog picture signal sig can be obtained by giving the signals clk, si, LEDr, LEDg, and LEDb to this CIS.
For detailed timing refer to Fig. 2 and Fig. 3.

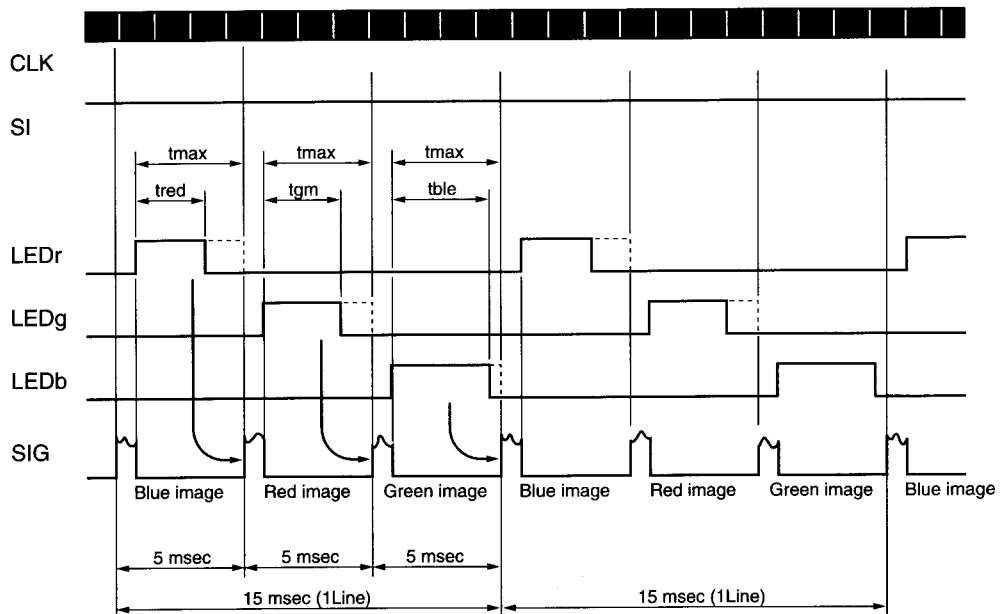
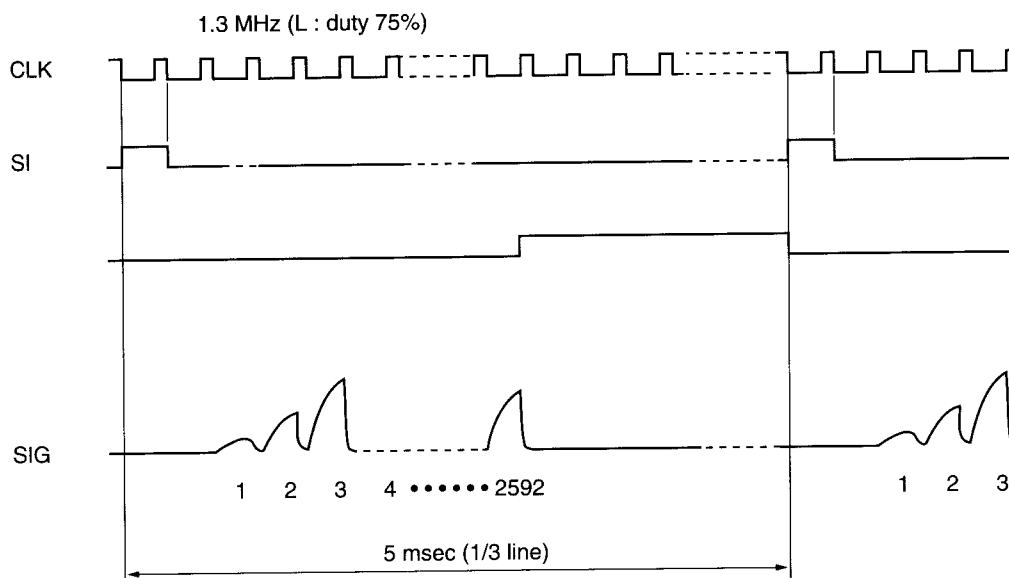


Fig. 2



✕ The number of effective picture elements is from the 21st to the 2572nd picture elements, namely 2,552 picture elements.

Fig. 3

Shading Correcting Method

Shading Correction is enabled by the unit when scanning an image for transmitting, copying, or file transfers.

LED_r, LED_g and LED_b reference the factory default shading value.

However, if color balance is out of specification, use must perform

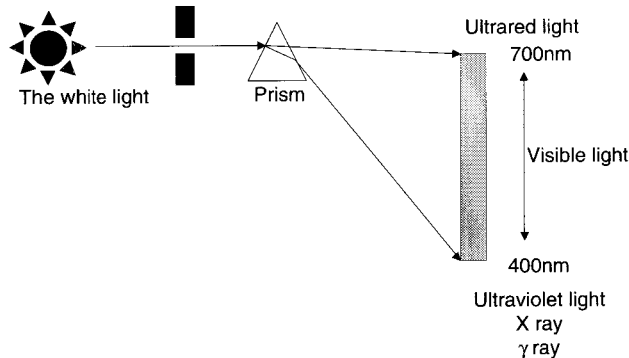
Shading Correction Mode.

When performed, each variable of LED_r, LED_g and LED_b are stored and then combined to set the shading correction value.

[7] Basis of color

(1) Physical properties of light

The light is a kind of electromagnetic waves which are classified by wavelength. The white light such as sunlight is mixture of lights of different wavelengths which can be divided into monochromatic lights of different wavelength through the prism. The wavelength of visible light is from 400 nm to 700 nm.



Wavelength(nm)	Color name
380~430	Bluish violet
430~467	Violet blue
467~483	Blue
483~488	Greenish blue
488~493	Blue green
493~498	Bluish green
498~530	Green
530~558	Yellowish green
558~569	Yellow green
569~573	Greenish yellow
573~578	Yellow
578~586	Yellowish orange
586~597	Orange
597~640	Raddish orange
640~780	Red

Unit of scale

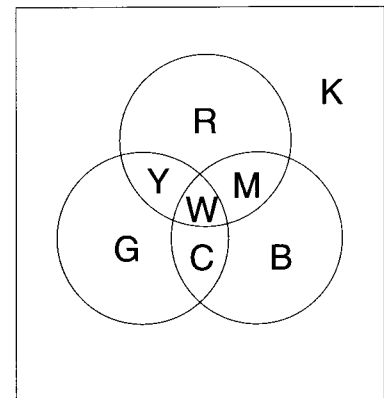
T(Tera)	= 10 ¹²
G(Giga)	= 10 ⁹
M(Mega)	= 10 ⁶
K(Kilo)	= 10 ³
m(Milli)	= 10 ⁻³
μ(Micro)	= 10 ⁻⁶
n(Nano)	= 10 ⁻⁹
p(Pico)	= 10 ⁻¹²

(2) Expression of colors

The visible colors can be expressed by combination of red R, green G and blue B. Various colors are obtained by making basic colors on the display or print. This effect is called the color mixture which divided into additive color mixture and subtractive color mixture.

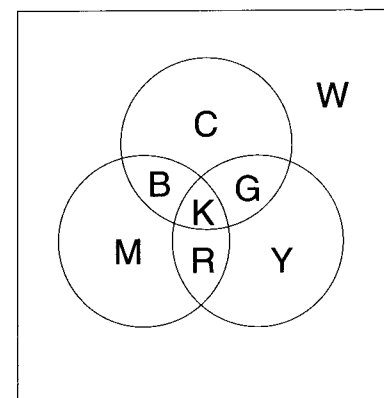
1. Additive color mixture

The R, G and B fluorescent paints are applied to the CRT display, and various colors are obtained with the aid of electron beam. Thus, the combination of R, G and B to get colors is called the additive color mixture. If R, G, and B of the same intensity are mixed, white color is obtained.



2. Subtractive color mixture

The basic colors of print inks are C, M and Y. C absorbs R, M absorbs G, and Y absorbs B. If an ink is applied to the white paper and is exposed to the light (R + G + B), the R, G and B components are absorbed depending on the concentration of CMY inks, and the reflected light appears as combination of RGB. Thus, the color expression based on the subtraction is called the subtractive color mixture.



Meaning of symbols

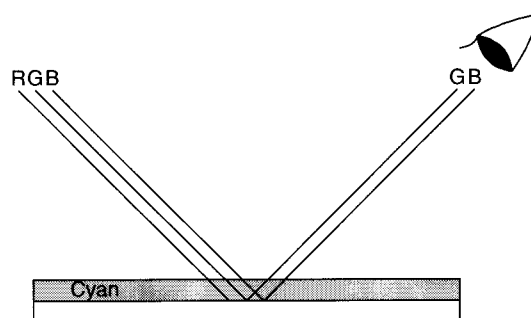
R	 Red	C	 Cyan
G	 Green	M	 Magenta
B	 Blue	Y	 Yellow
W	 White	K	 Black

(3) Ink coloring mechanism

Cyan

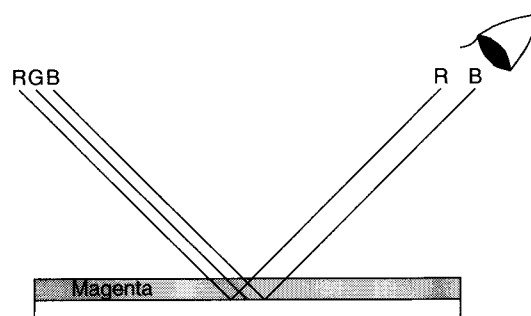
The cyan ink absorbs the R (red) light.

When the cyan ink is exposed to the white light composed of R, G and B, R is absorbed, but G + B is reflected and visible. When G and B are incident together, the cyan color appears.



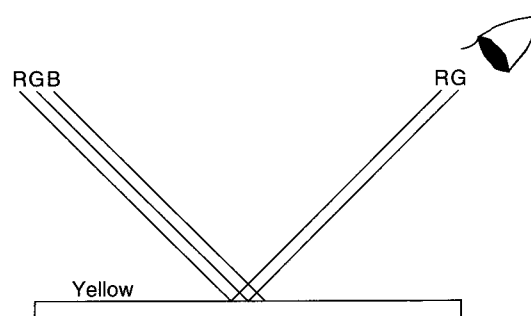
Magenta

The magenta ink absorbs the G (green) light. When the magenta ink is exposed to the white light composed of R, G and B, G is absorbed, but R + B is reflected and visible. When R and B are incident together, the magenta color appears.



Yellow

The yellow ink absorbs the B (blue) light. When the yellow ink is exposed to the white light composed of R, G and B, B is absorbed but R + G is reflected and visible. When R and G are incident together, the yellow color appears.

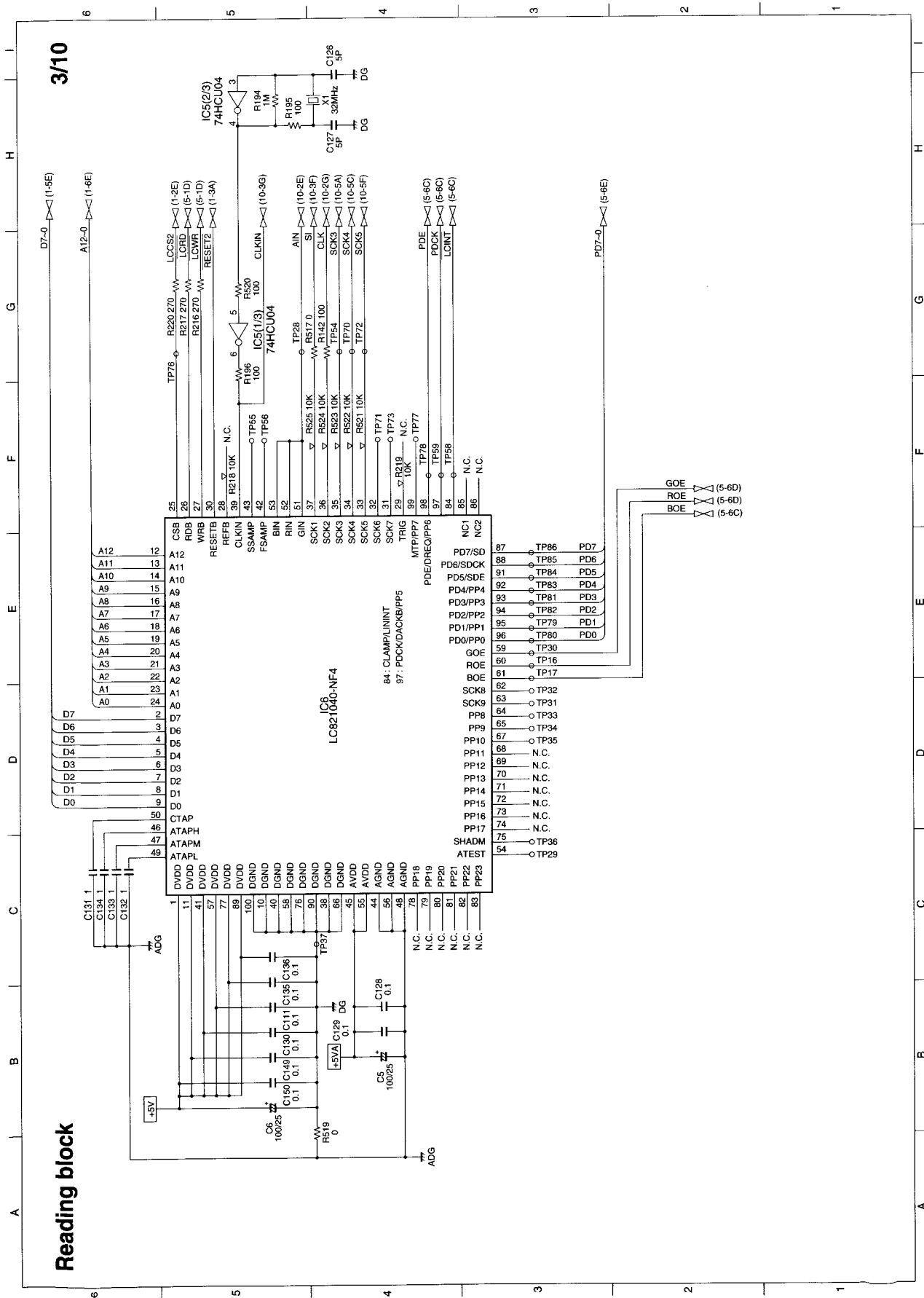


Basic print colors are CMYK

Actually, the perfect CMY ink does not exist. Even when C, M and Y are added, perfect black is not obtained but dark brown is obtained. Hence, in some cases the K (black) ink is added to get the deepness and detail.

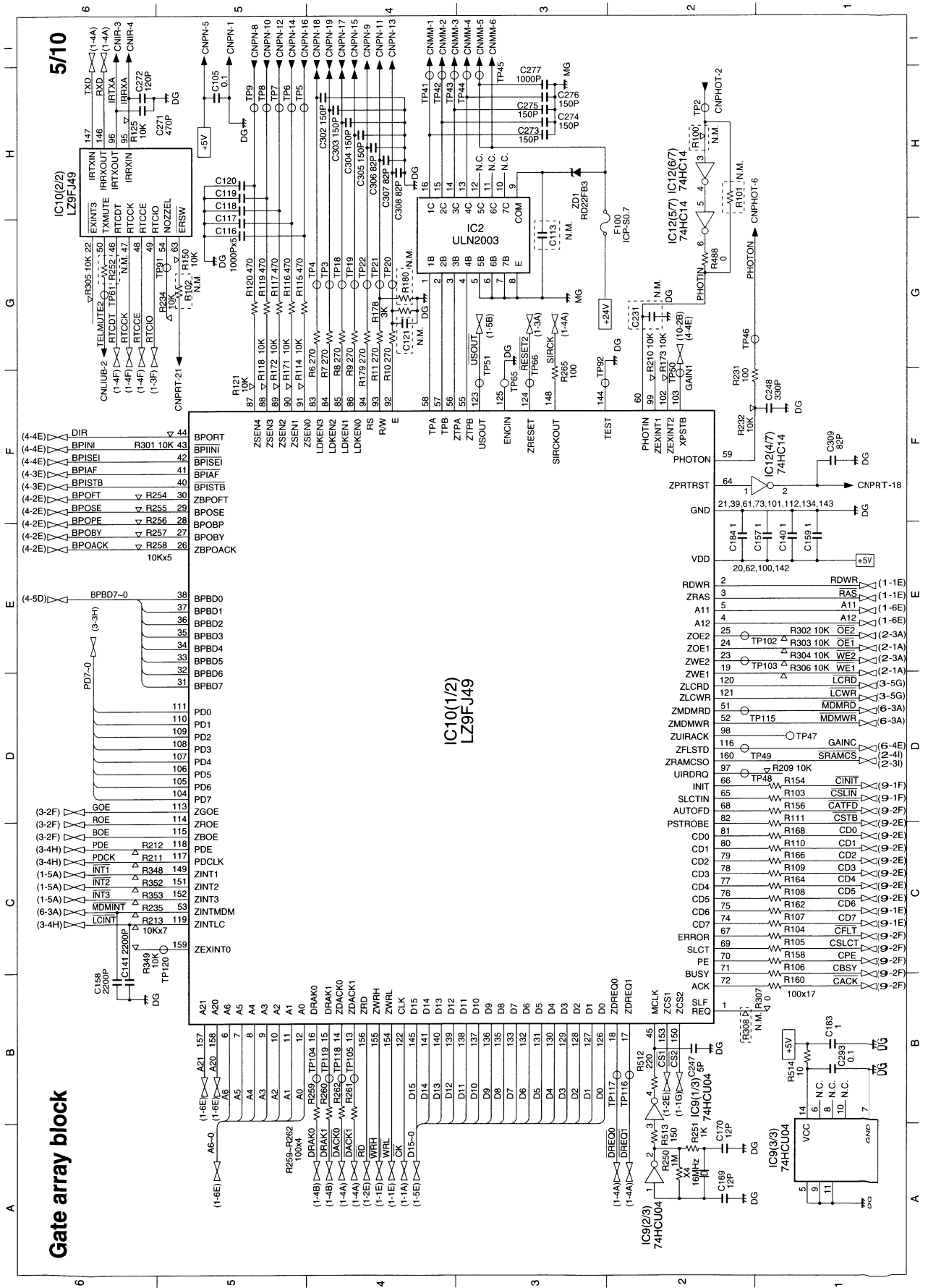
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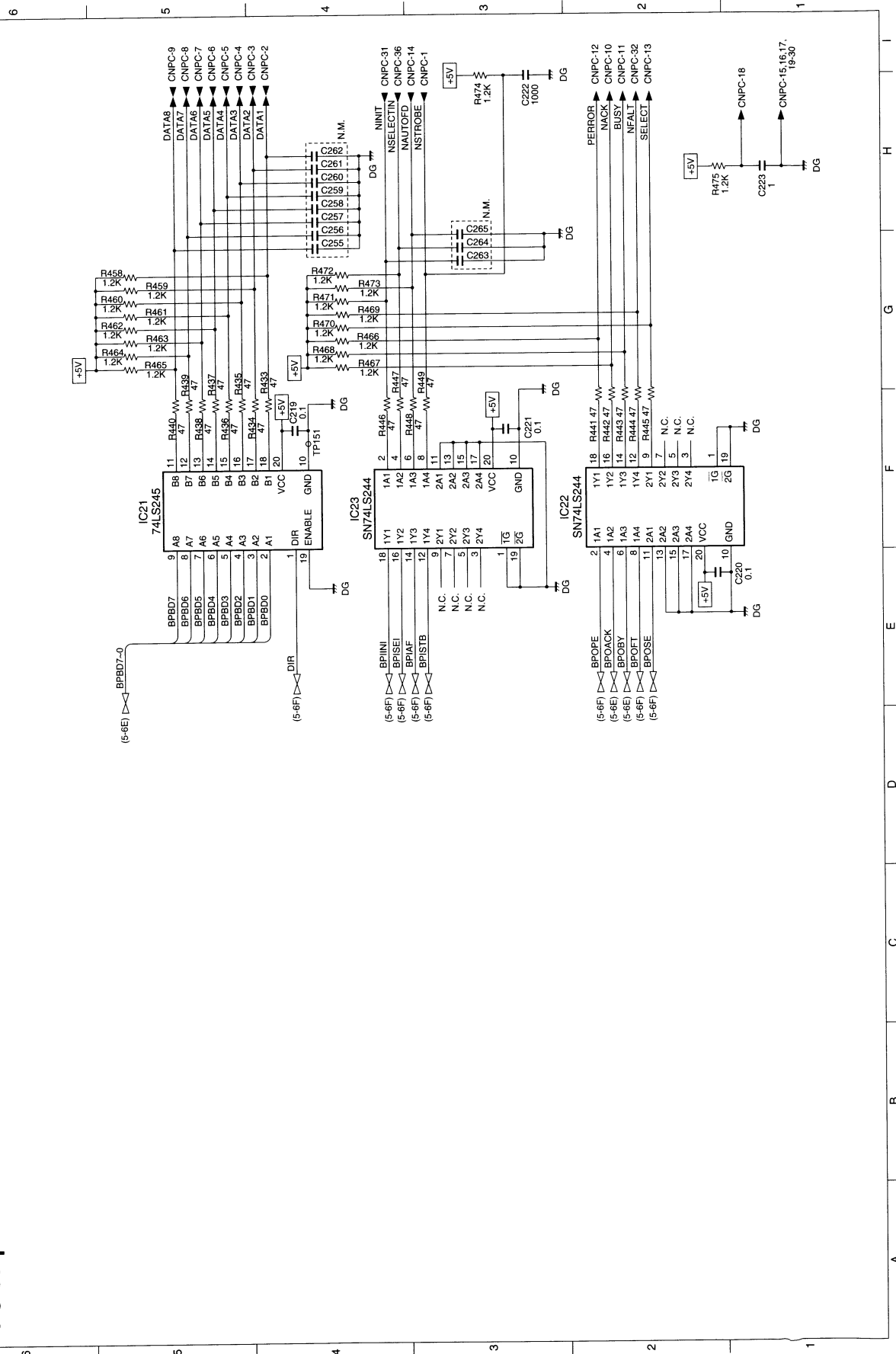


UX-2700CMT
FO-2550CMT



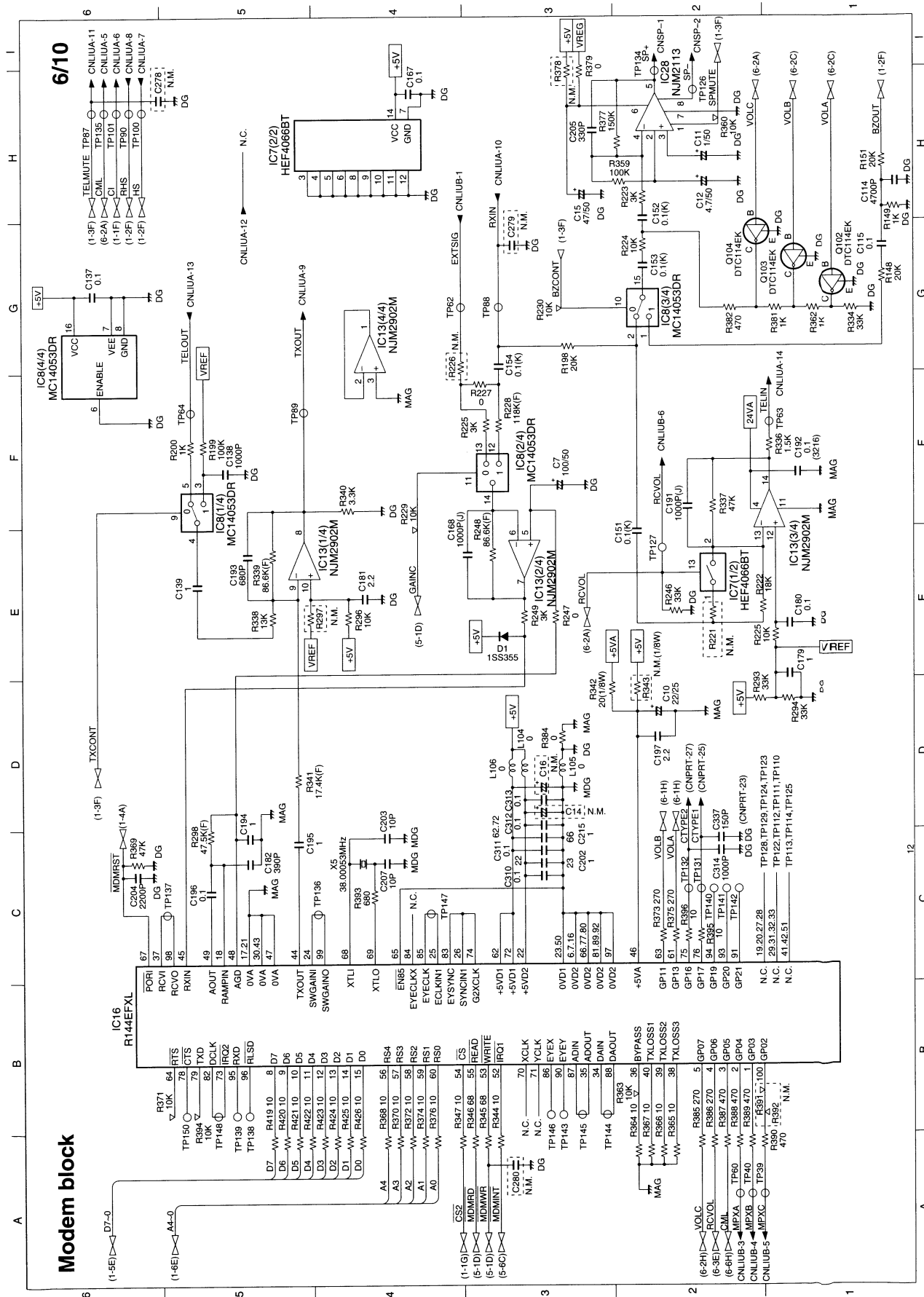
4/10

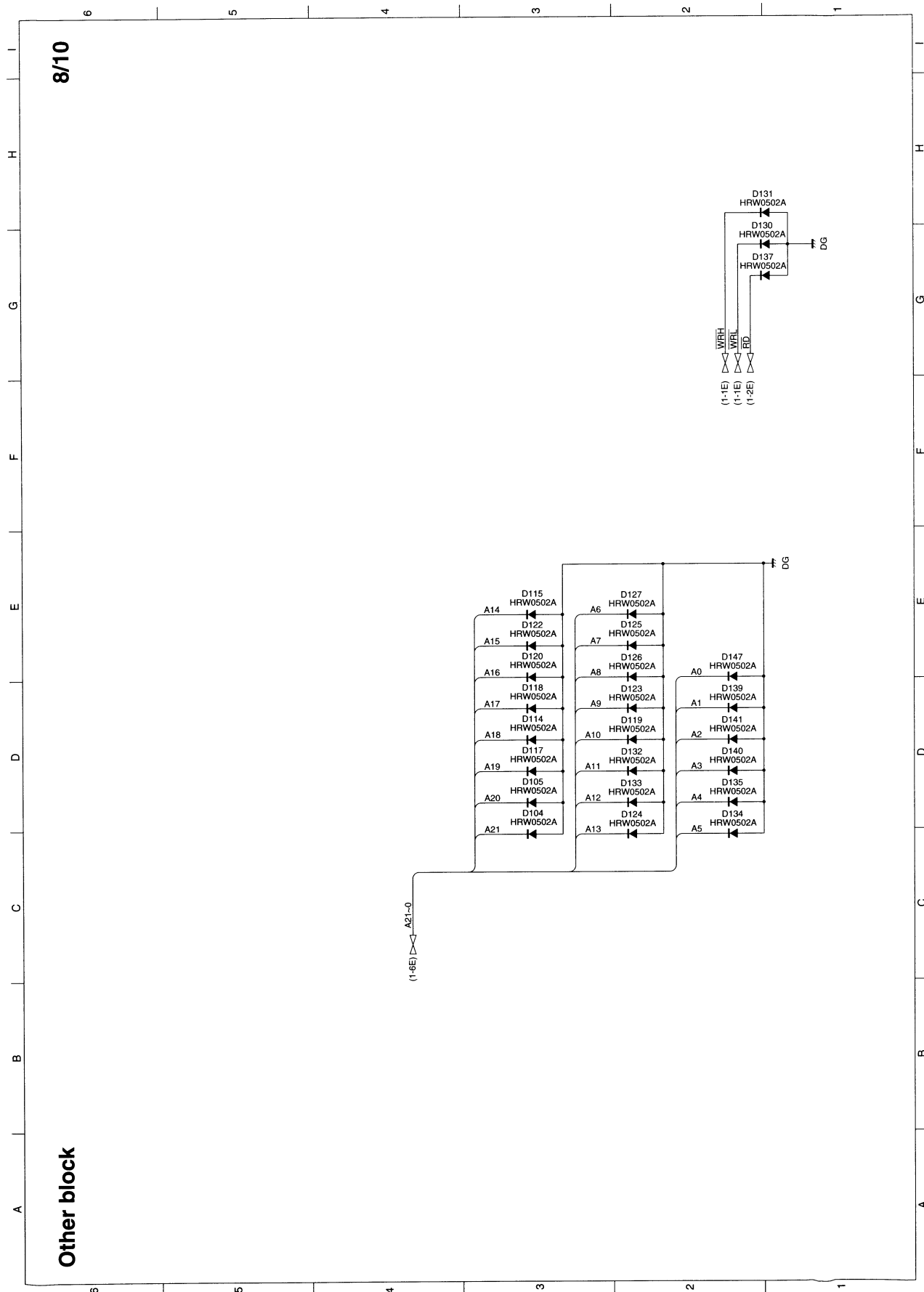
PC output block



7/10

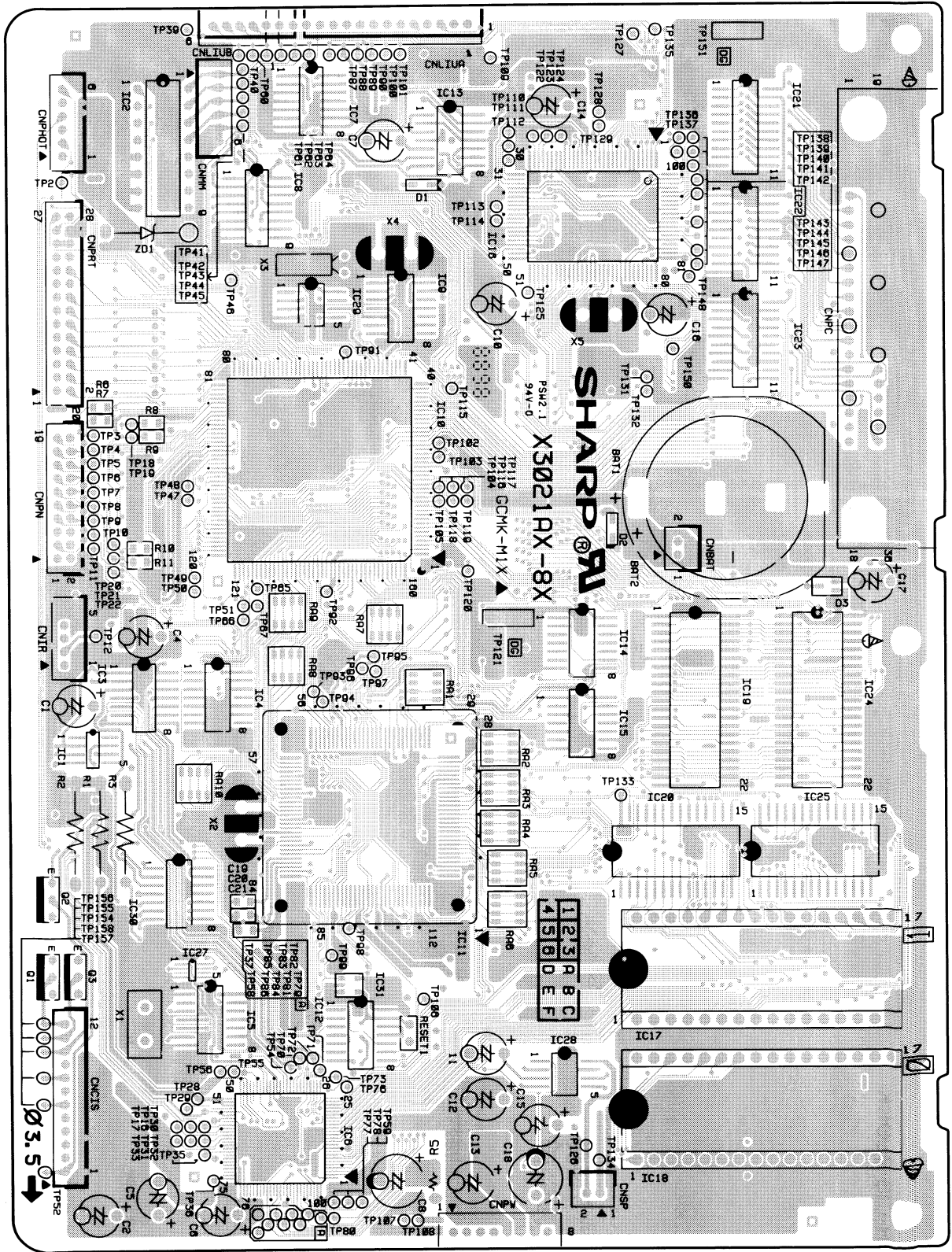




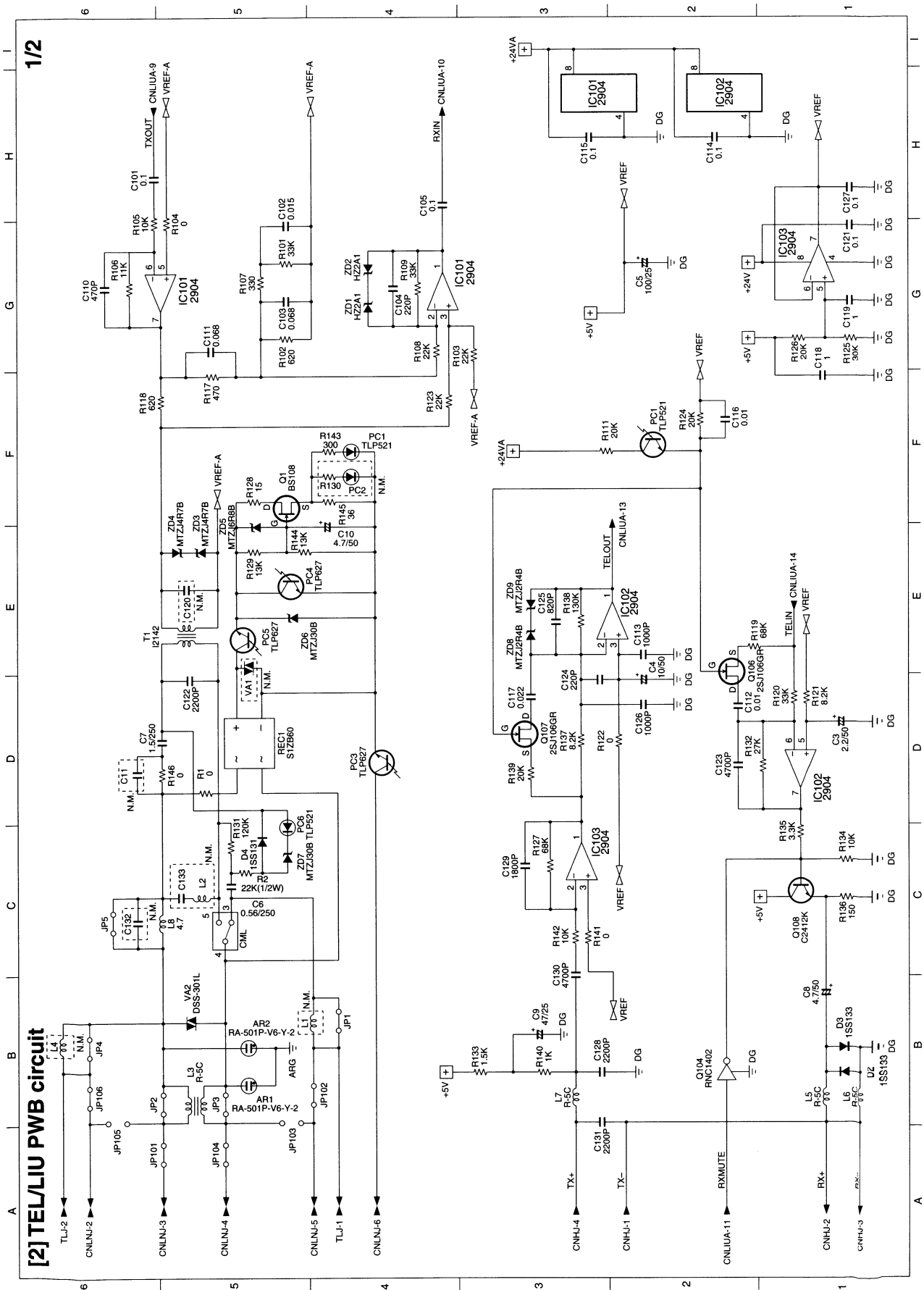


UX-2700CMIT
FO-2550CMIT

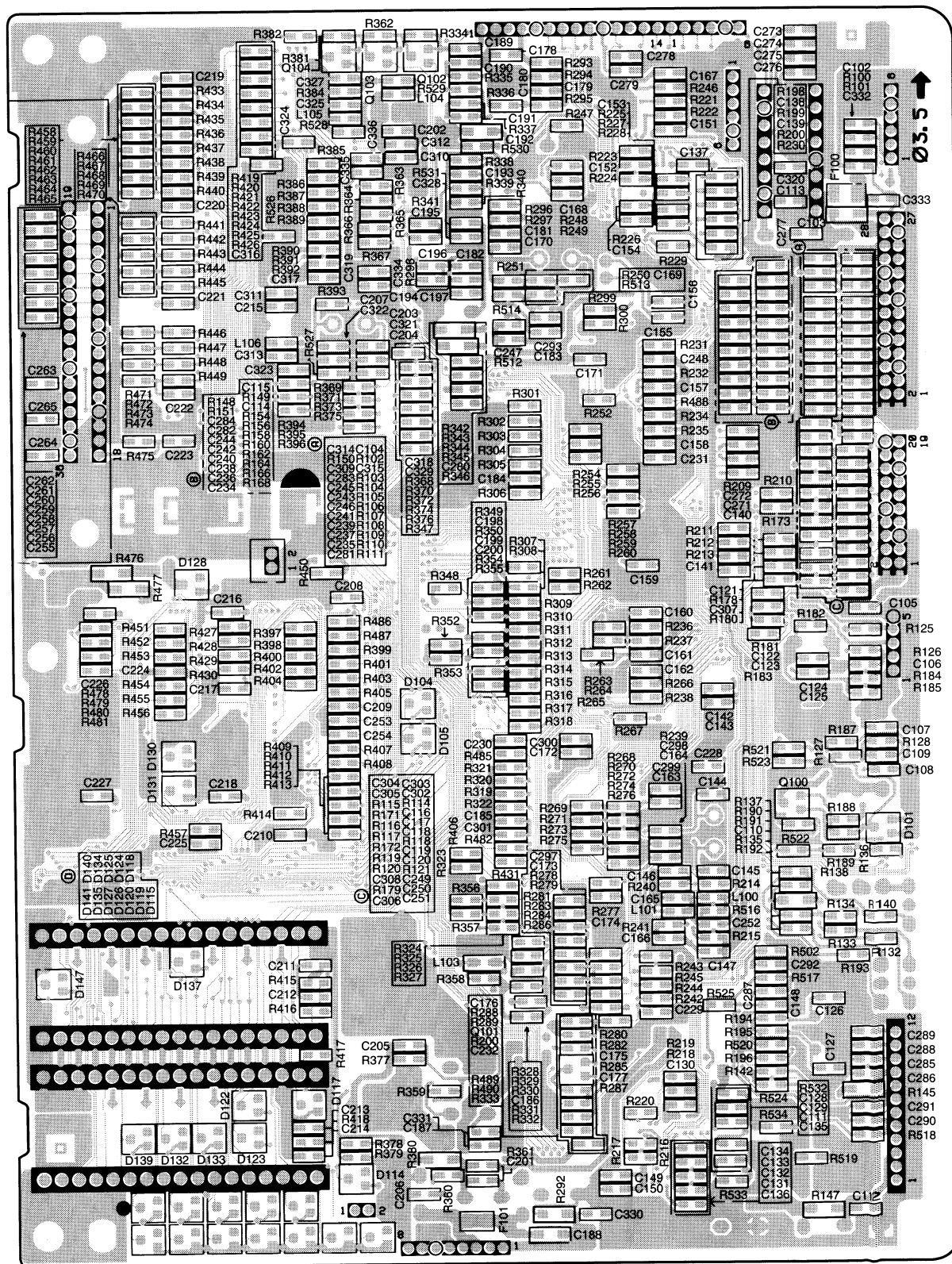
Control PWB parts layout (Top side)





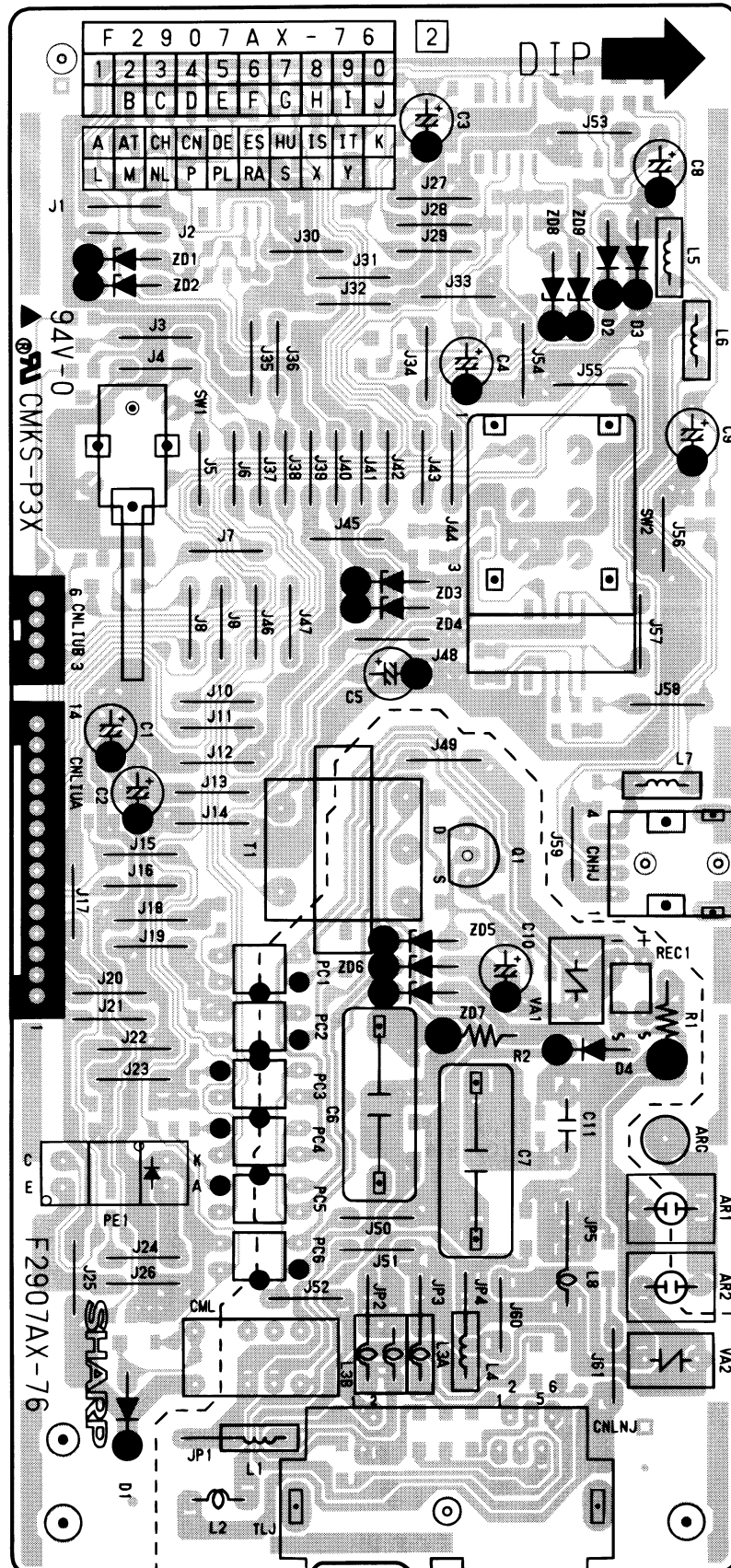
UX-2700CMIT
FO-2550CMIT

Control PWB parts layout (Bottom side)



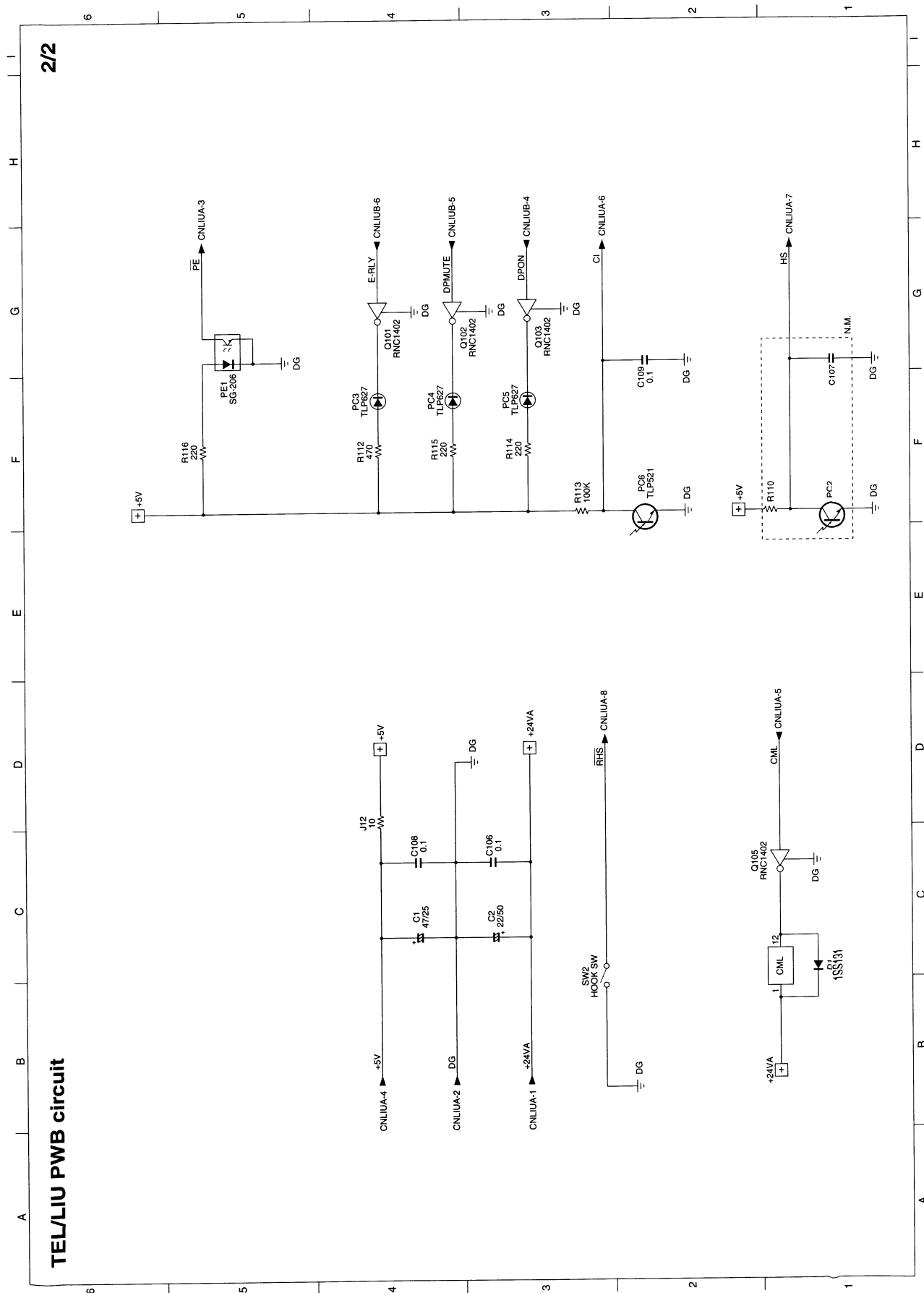
UX-2700CMIT
FO-2550CMIT

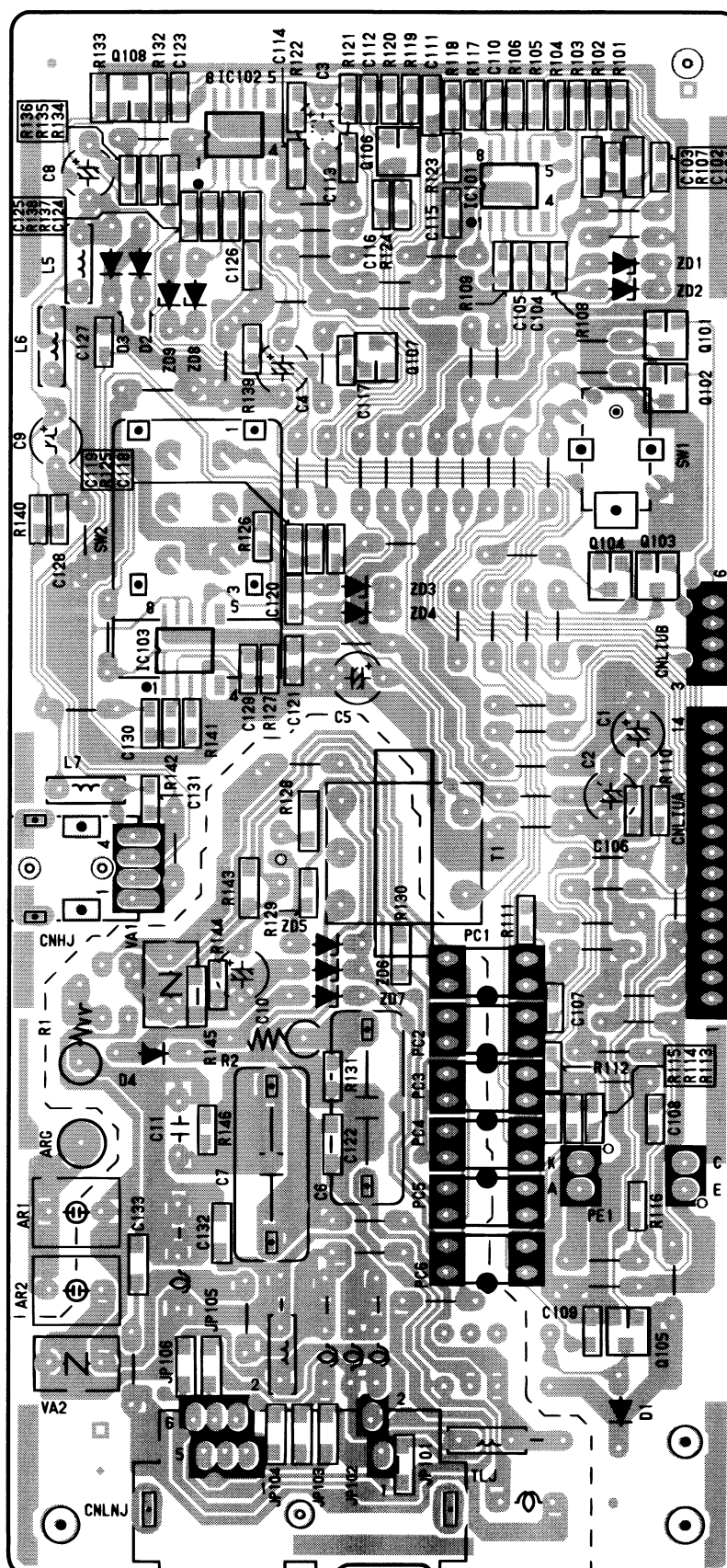
TEL/LIU PWB parts layout (Top side)



TEL/LIU PWB circuit

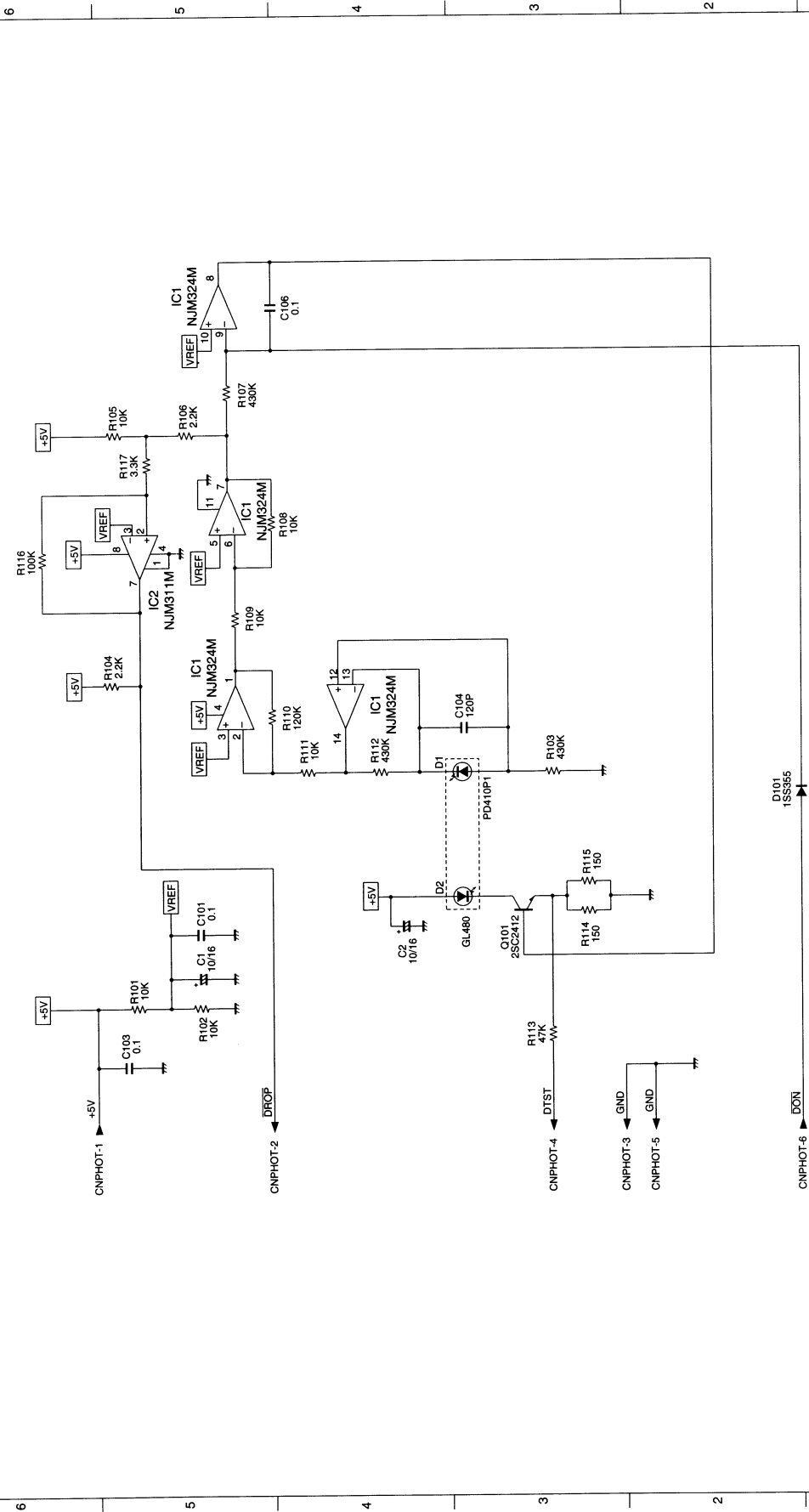
2/2



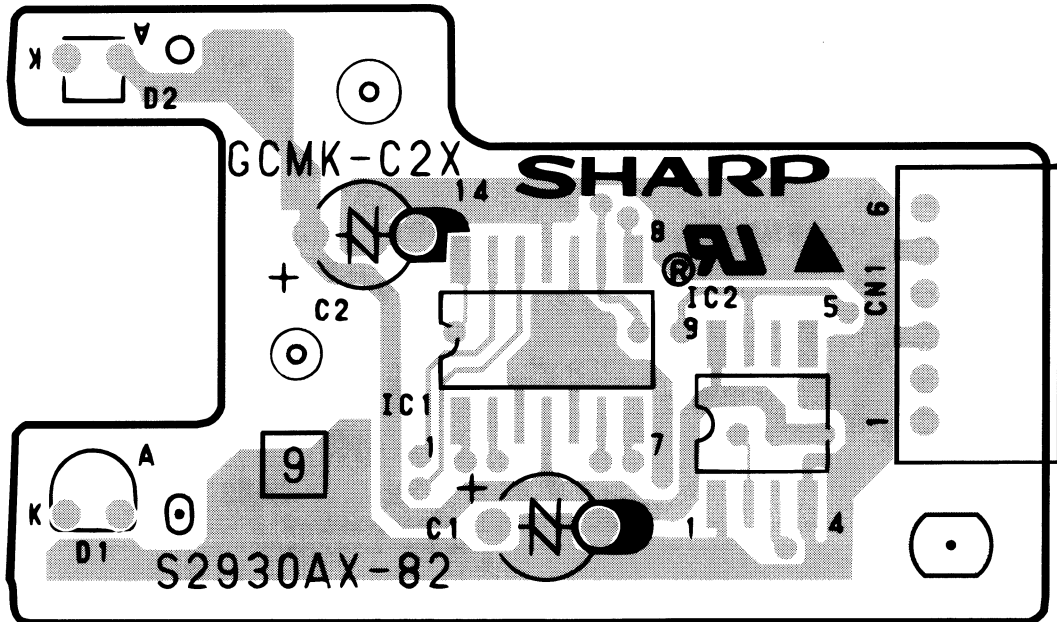


UX-2700CMT
FO-2550CMT

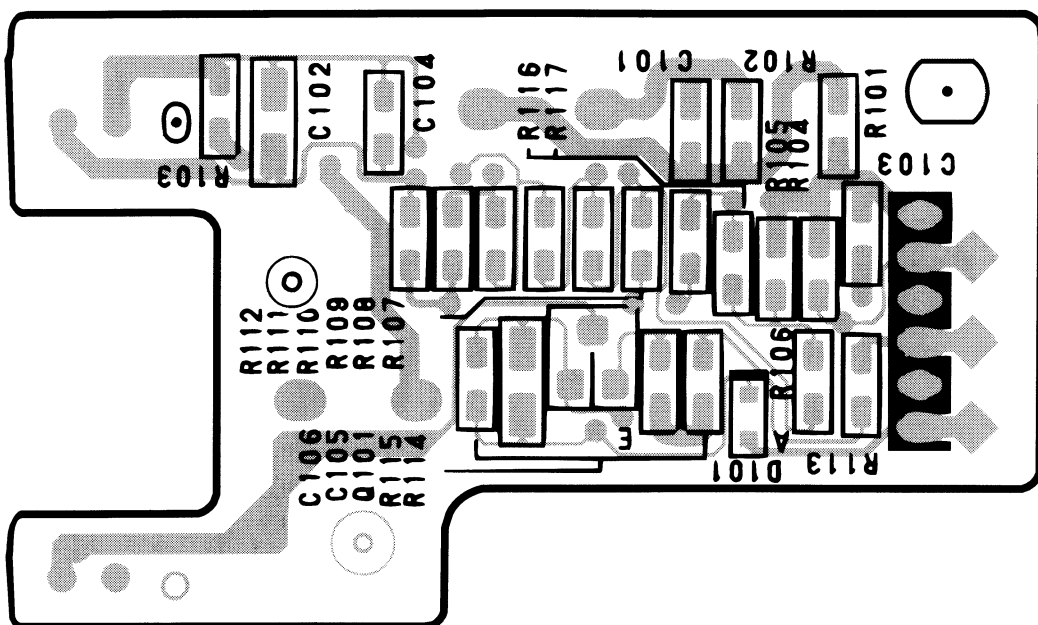
[3] Ink sensor PWB circuit

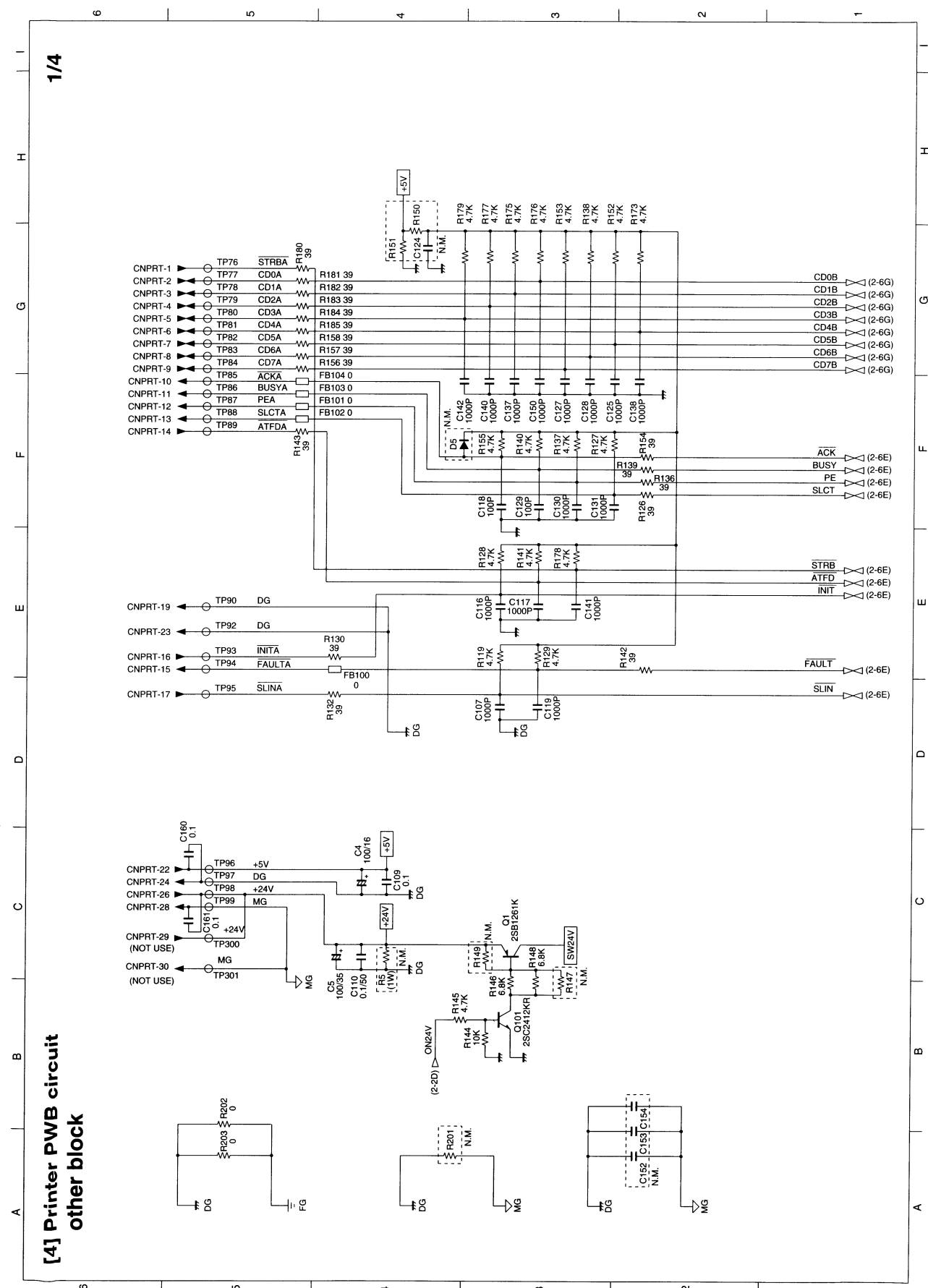


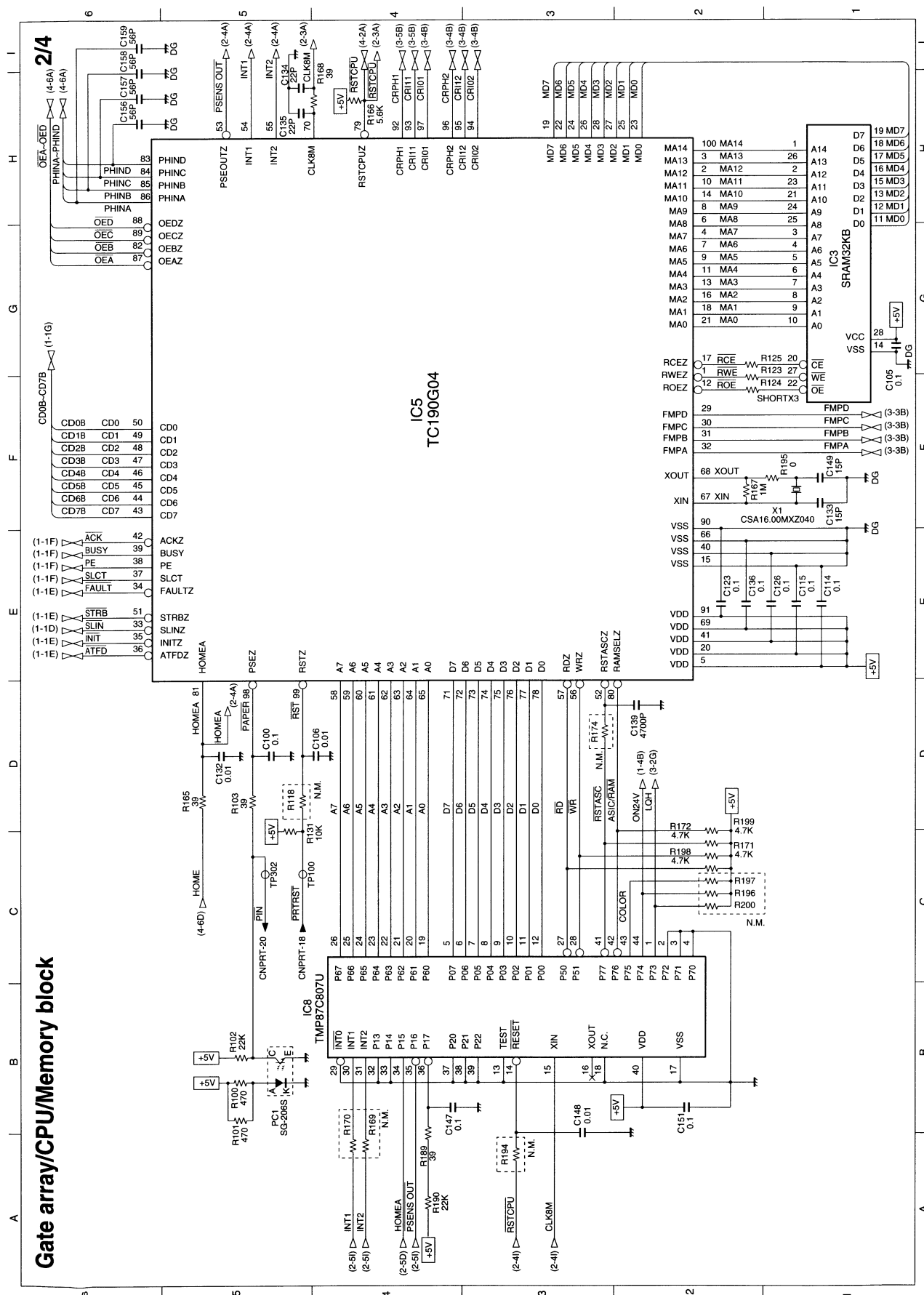
Ink sensor PWB parts layout (Top side)



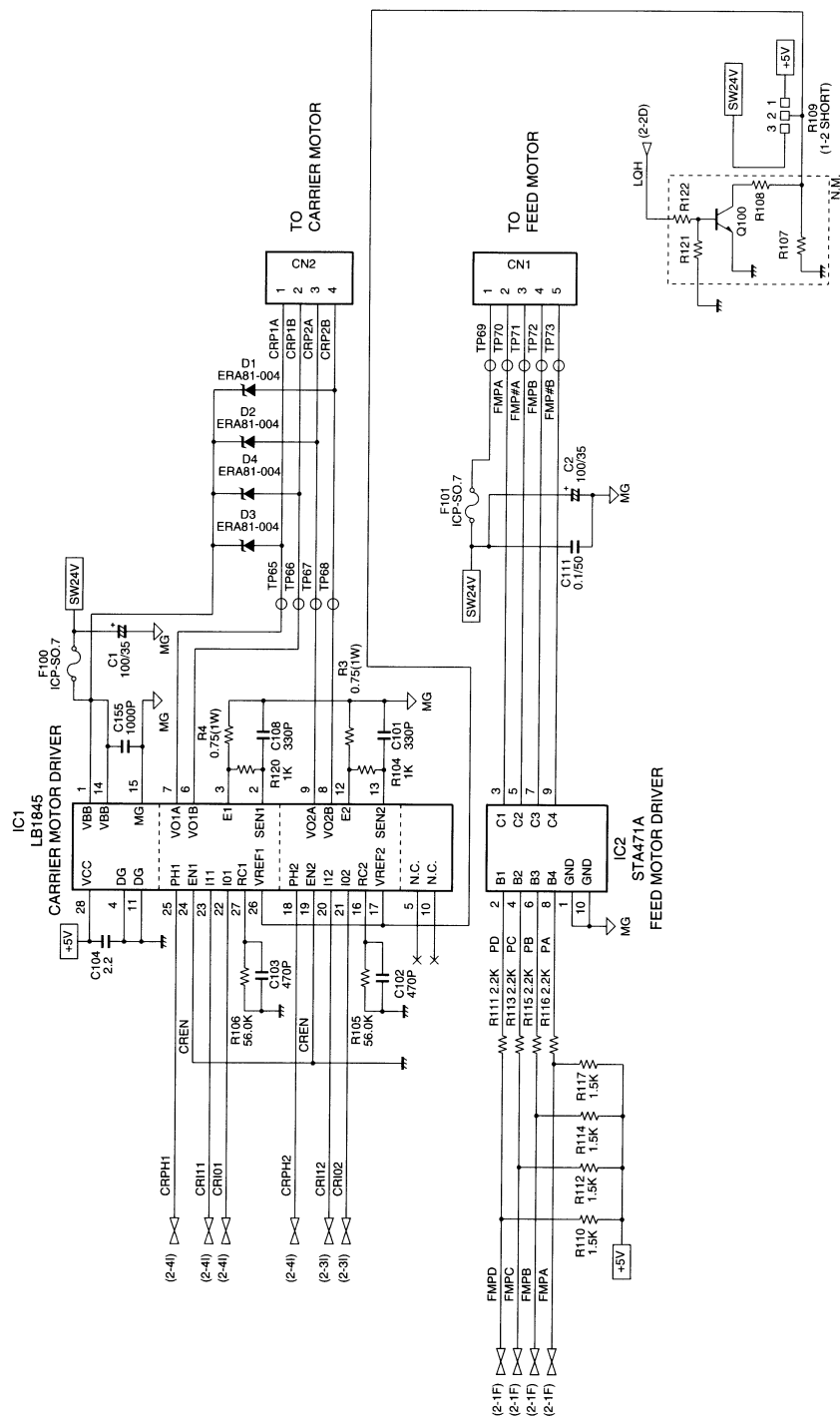
Ink sensor PWB parts layout (Bottom side)





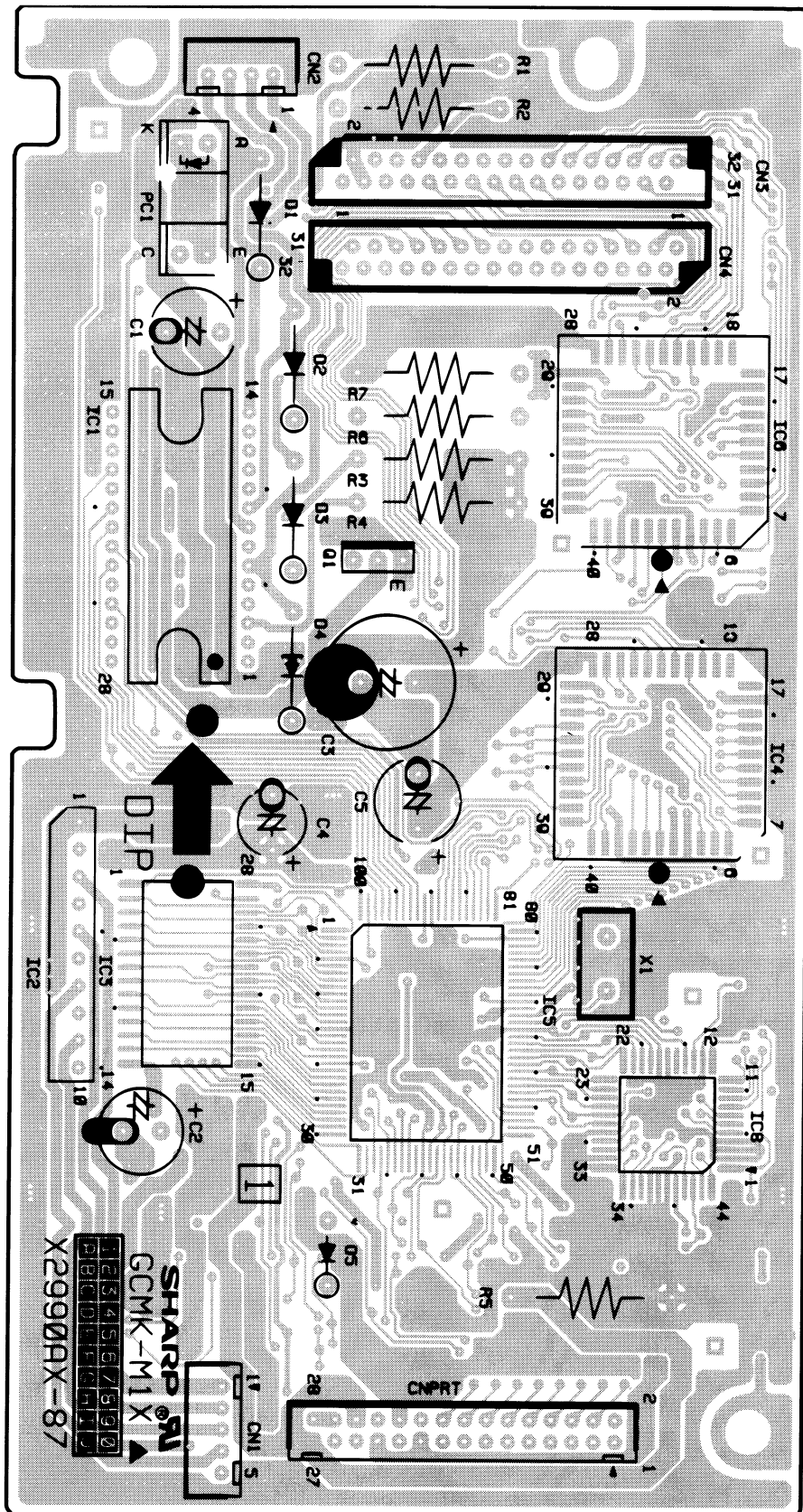


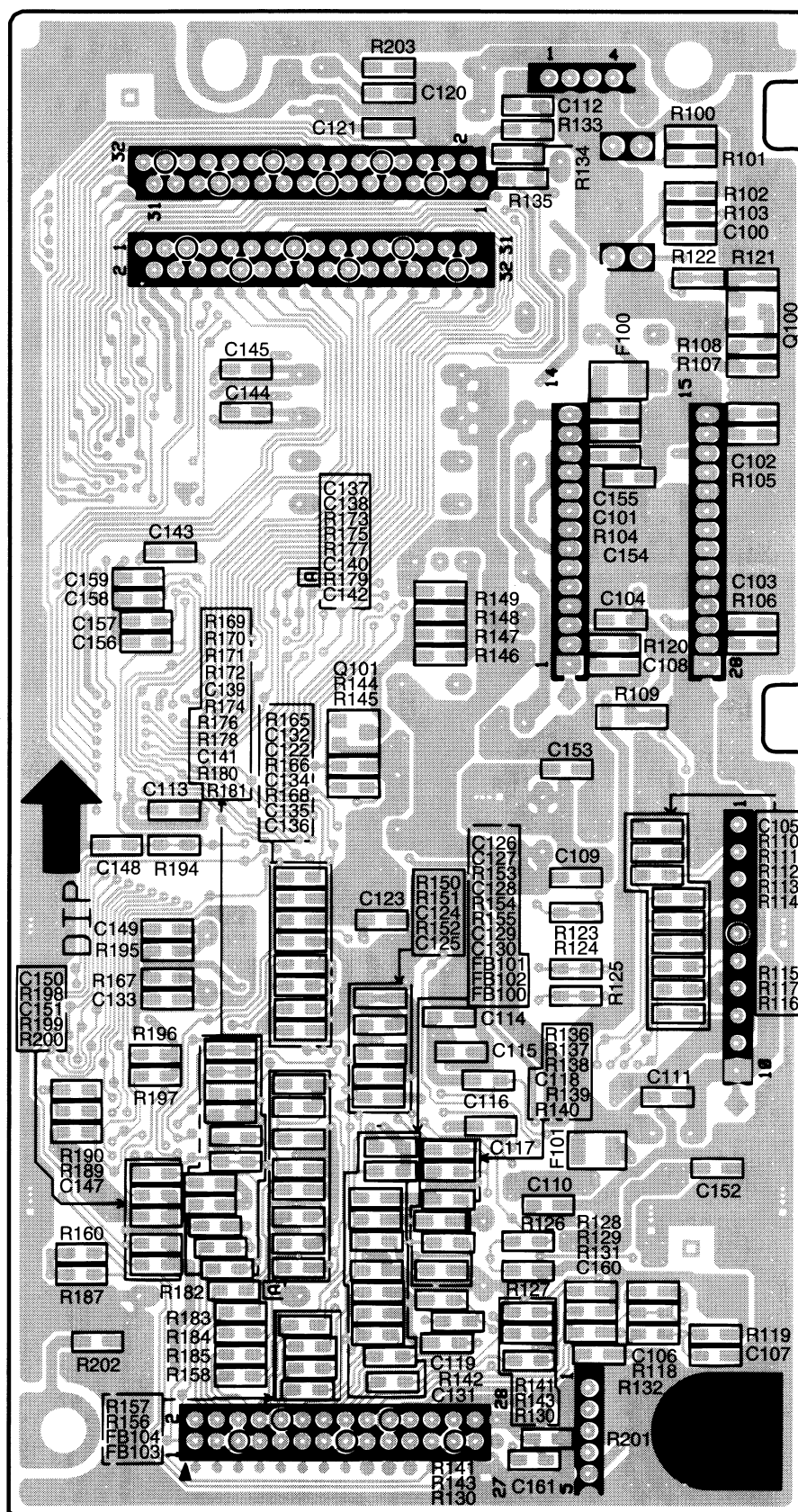
Motor driver block



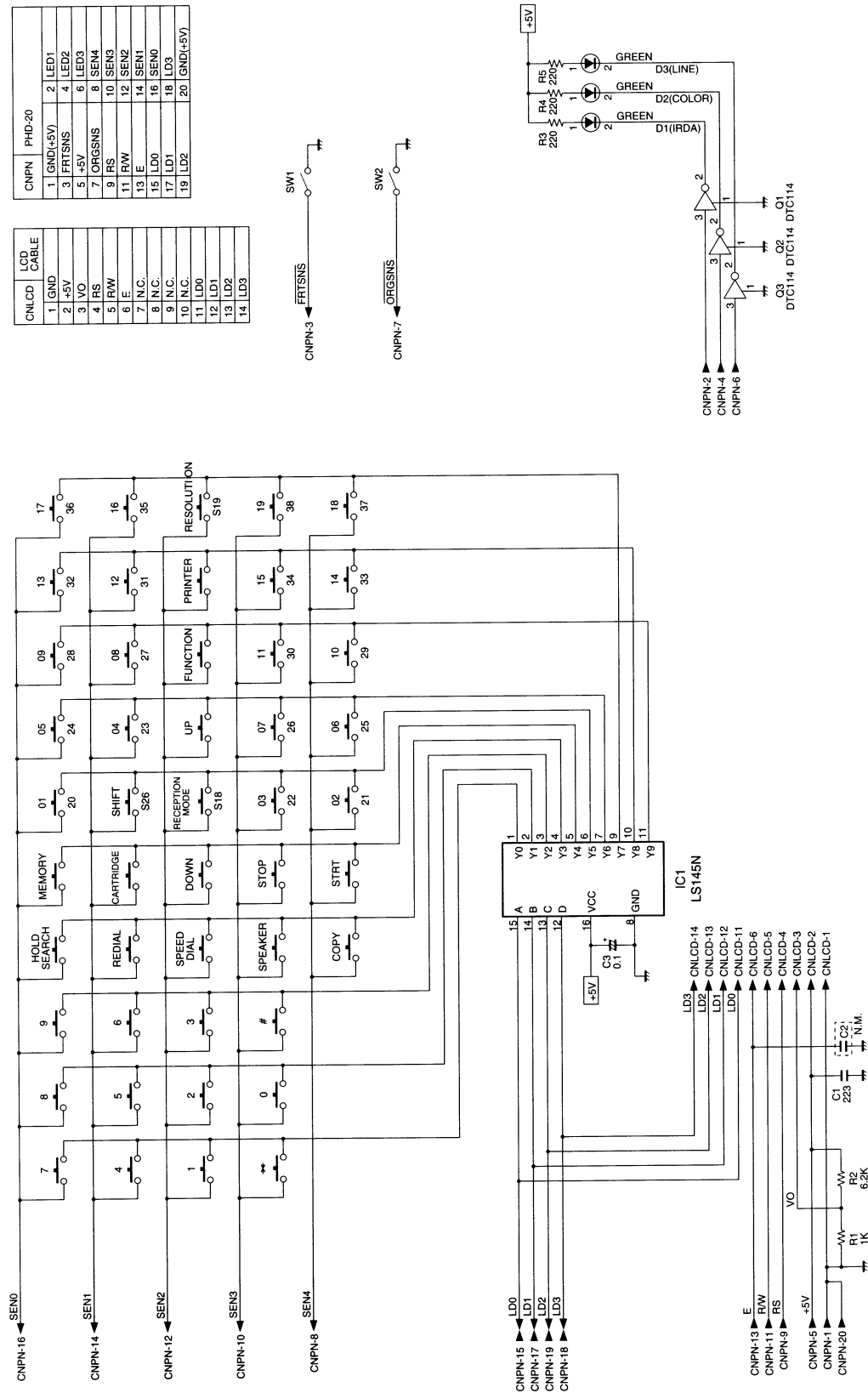


UX-2700CMT
FO-2550CMT
Printer PWB parts layout (Top side)



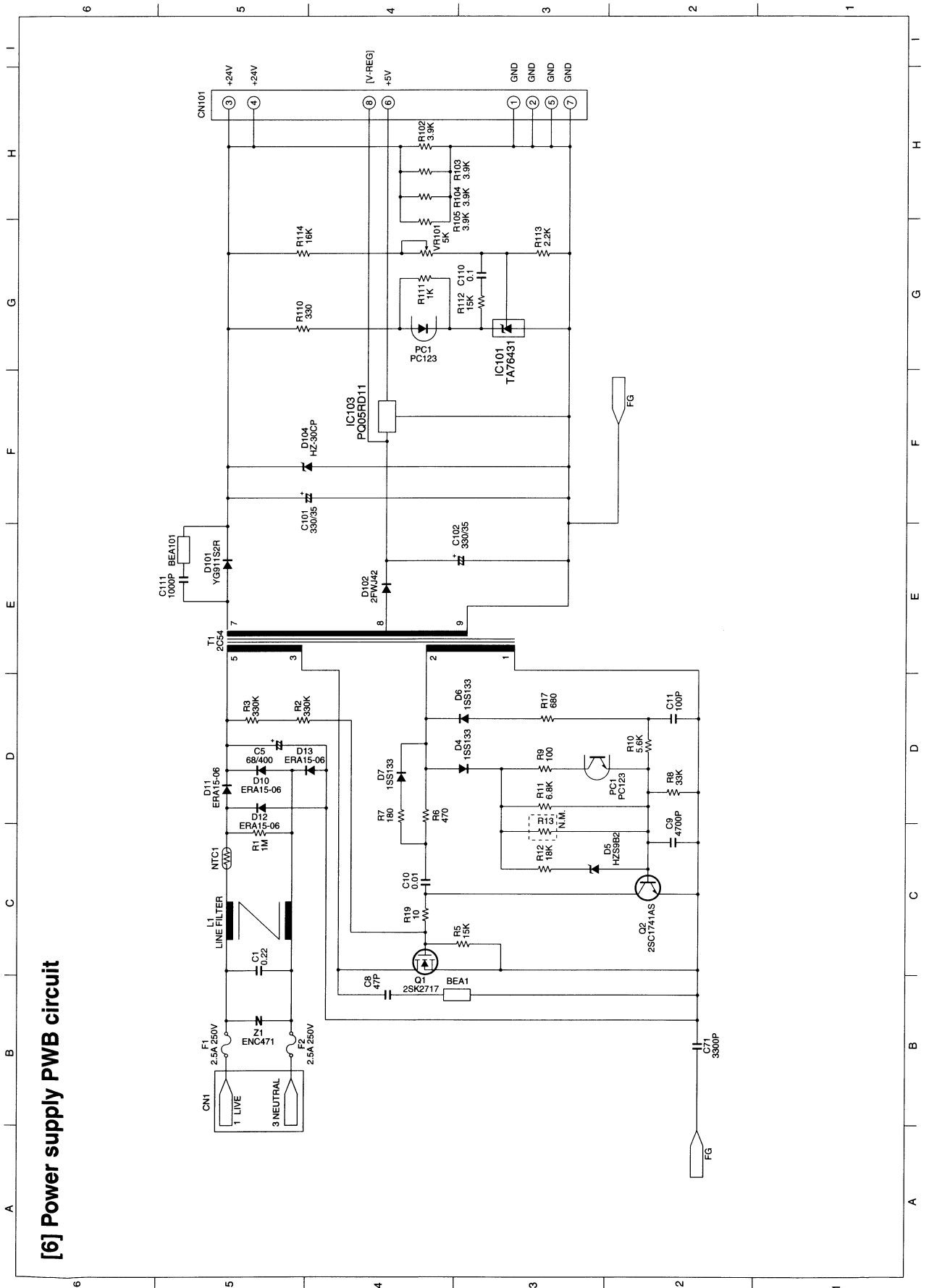


[5] Operation panel PWB circuit

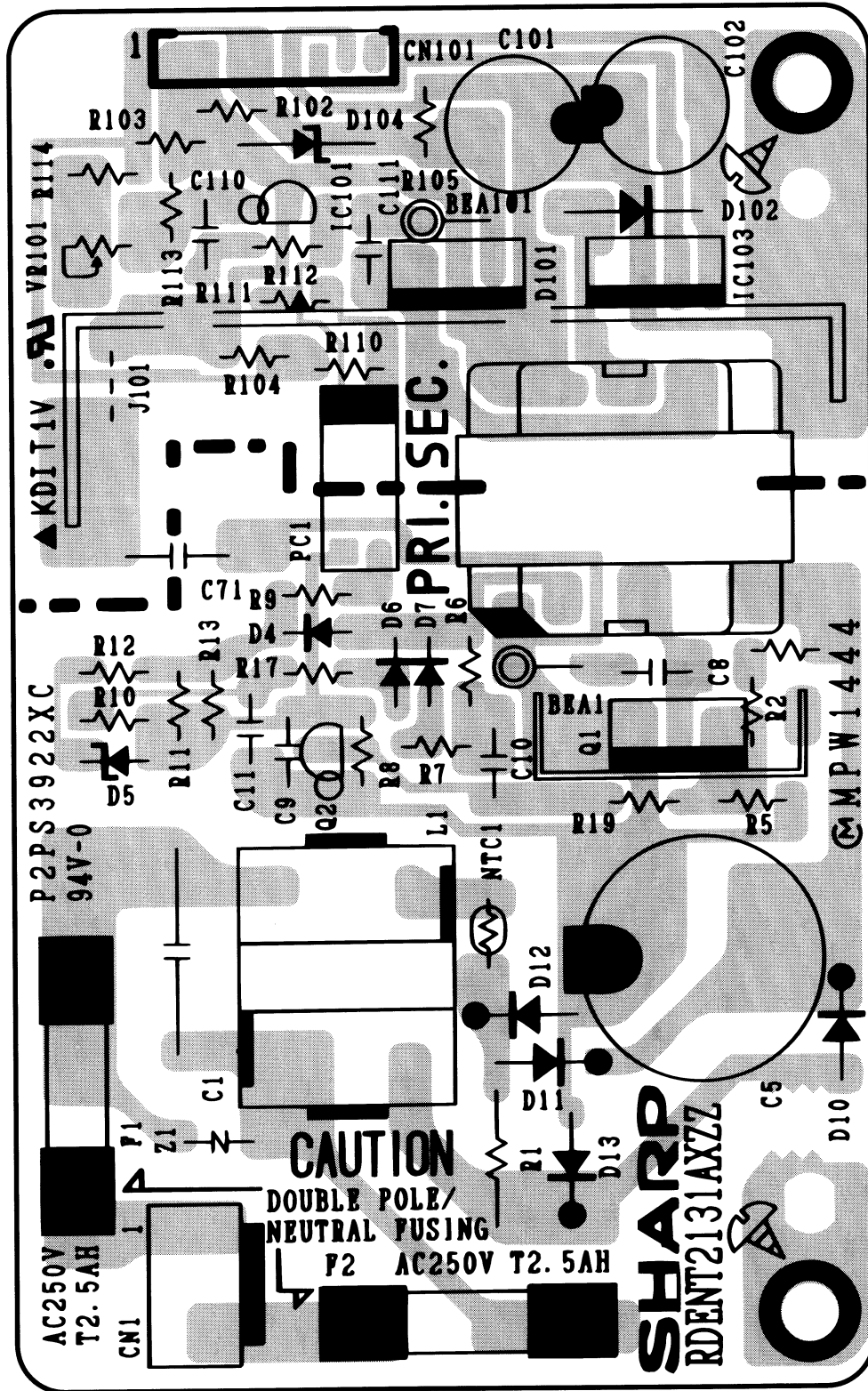


Note: Since the parts of this PWB can not be supplied, change it as a unit

[6] Power supply PWB circuit

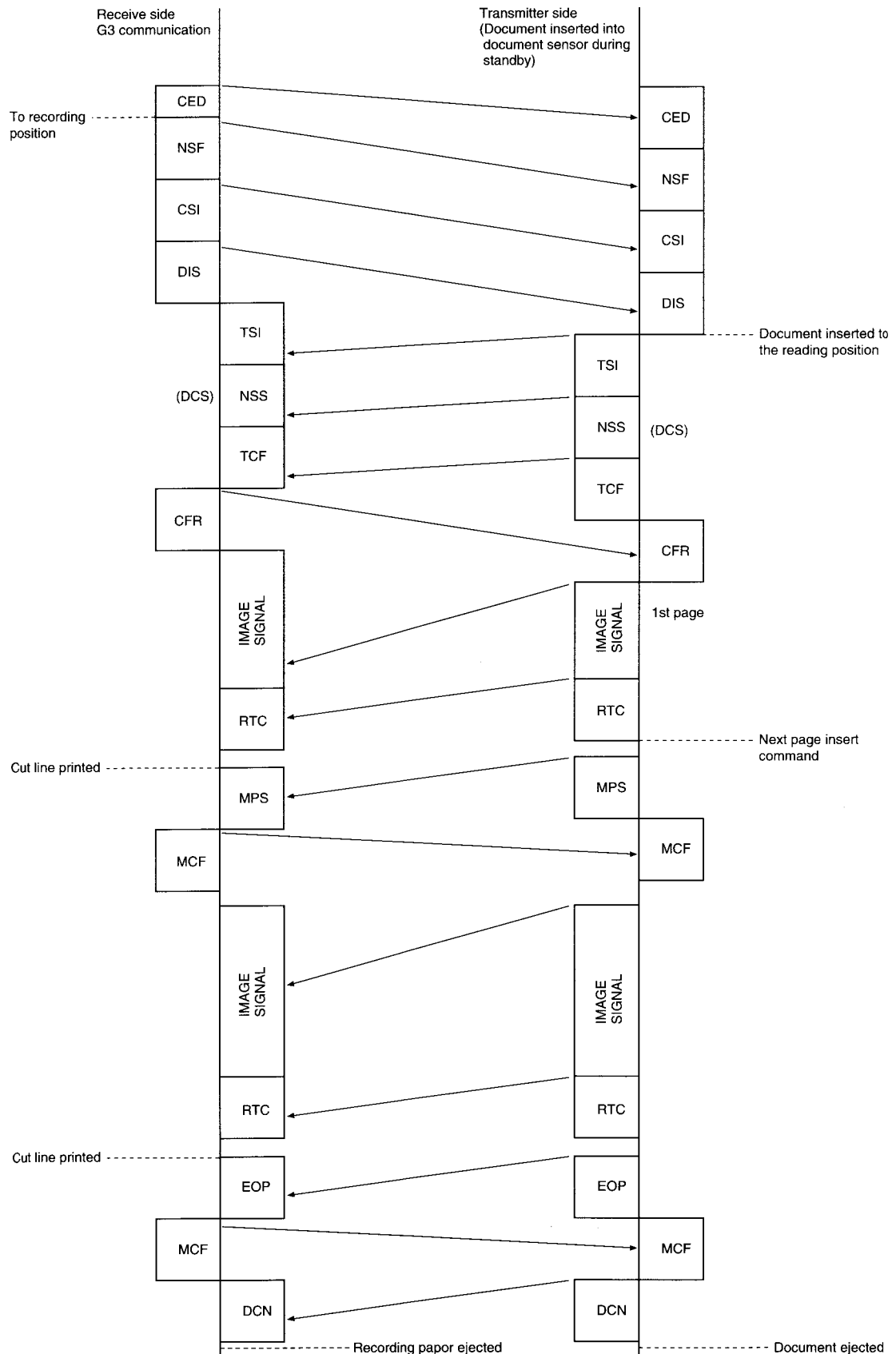


UX-2700CMIT
FO-2550CMIT
Power supply PWB parts layout



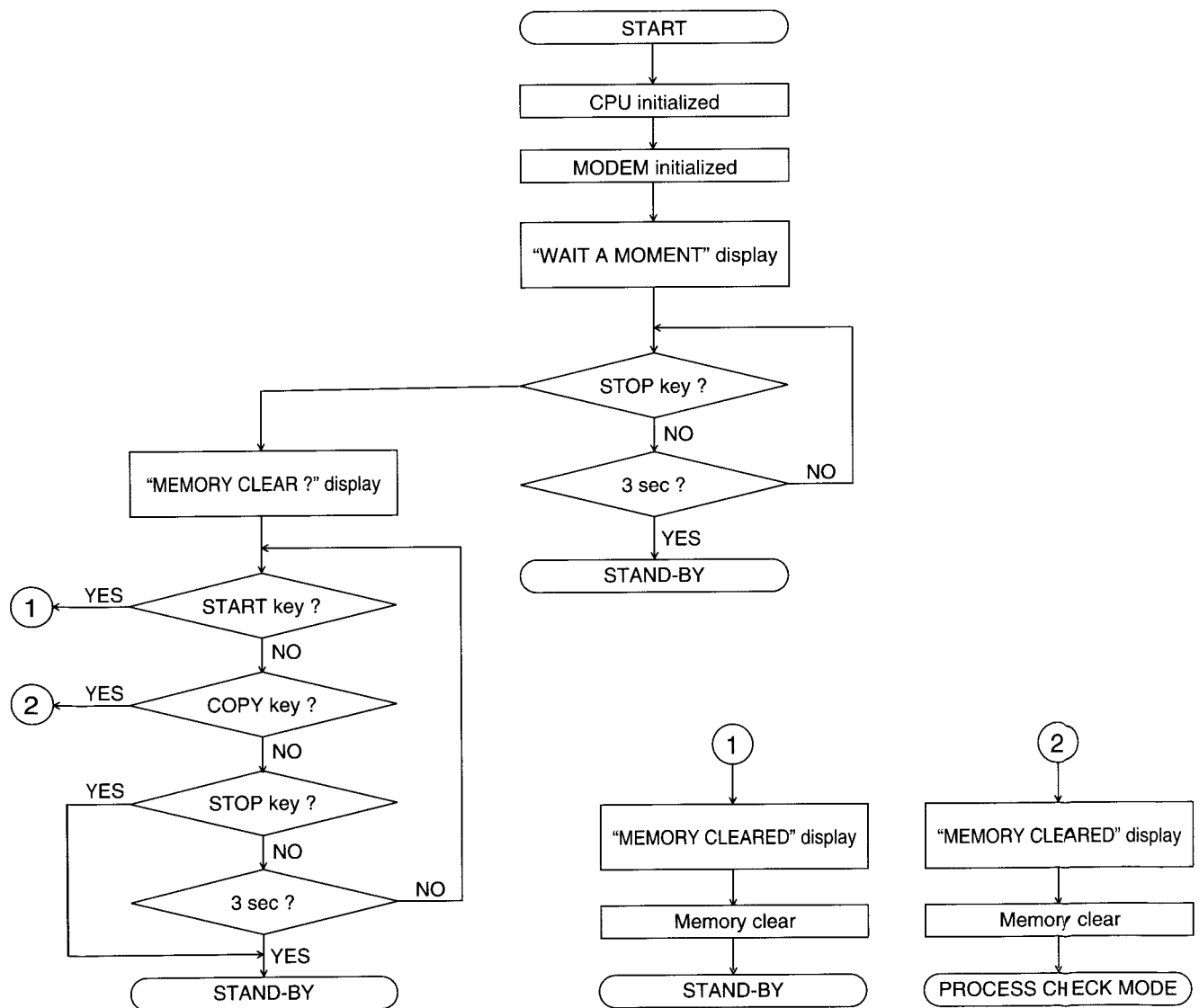
CHAPTER 7. OPERATION FLOWCHART

[1] Protocol



UX-2700CMIT
FO-2550CMIT

[2] Power on sequence



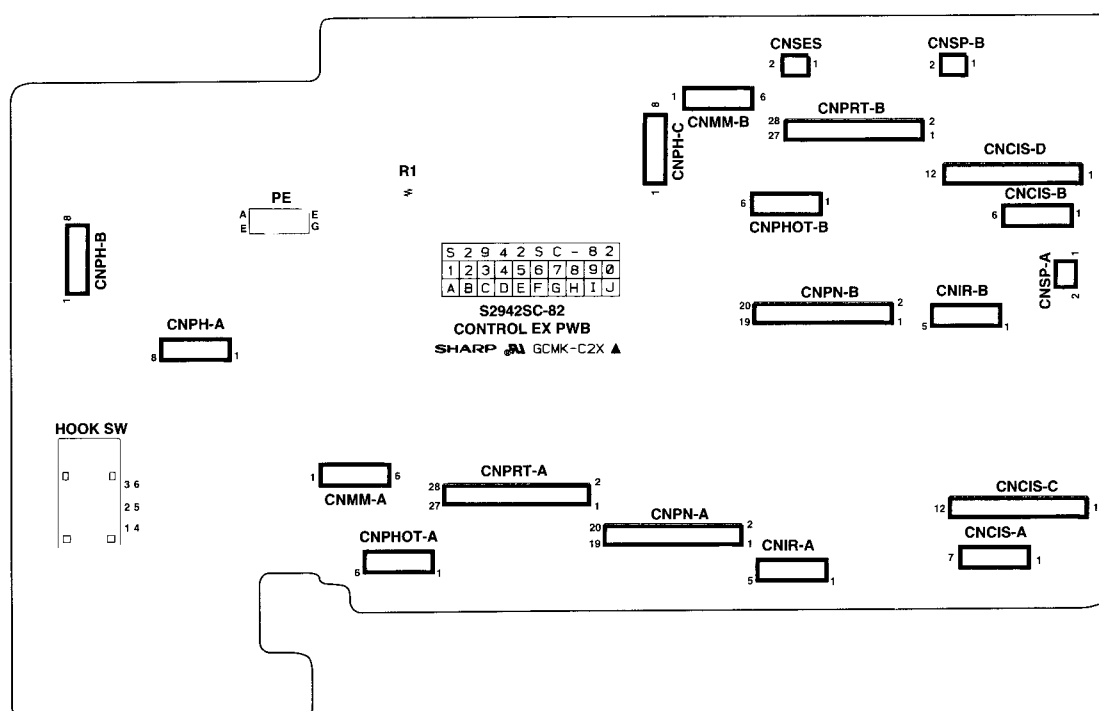
CHAPTER 8. OTHERS

[1] Service tools

1. List

NO.	PARTS CODE	DESCRIPTION	Q'TY	PRICE RANK
1	C P W B S 2 9 4 2 S C 0 2	Extension board unit	1	CE
2	P S H E Z 3 4 2 7 S C Z Z	Scanner calibration sheet (Shading sheet)	1	AD
3	0 M i 1 3 A 1 2 5 9 / / /	Ink cartridge garage	1	BQ

Extension control board unit

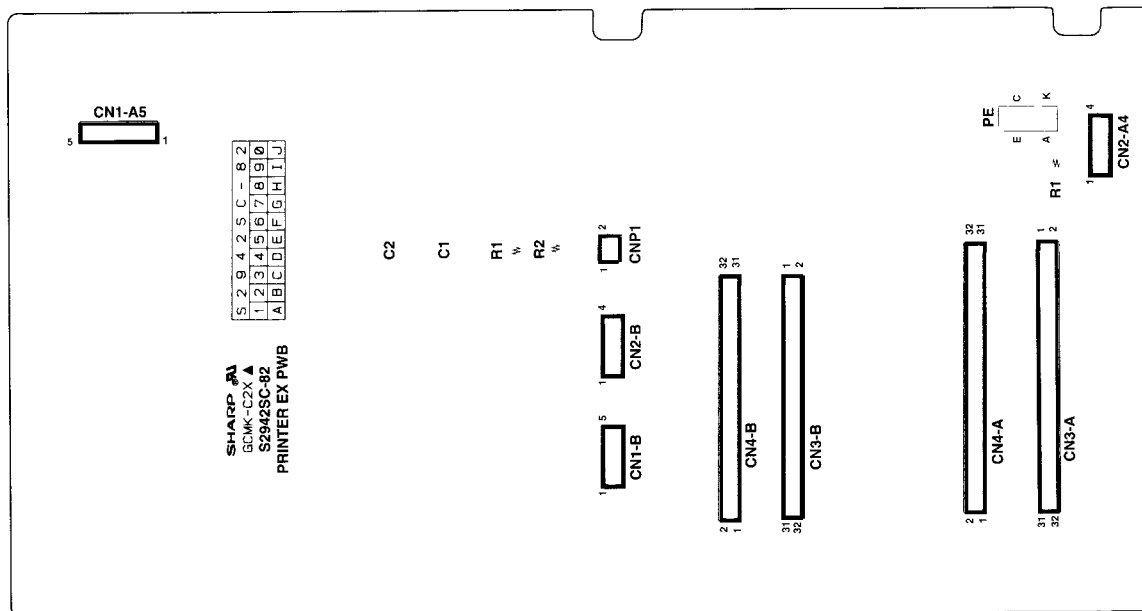


EXTENSION CONTROL PWB

NO.	PARTS CODE	DESCRIPTION	Q'TY	PRICE RANK
1	Q C N W - 4 7 9 4 S C Z Z	CABLE [CNSPB]	1	AK
2	Q C N W - 4 7 9 5 S C Z Z	CABLE [CNIRB]	1	AM
3	Q C N W - 4 7 9 6 S C Z Z	CABLE [CNMMB]	1	AN
4	Q C N W - 4 7 9 7 S C Z Z	CABLE [CNPHOTB]	1	AN
5	Q C N W - 4 9 4 1 S C Z Z	CABLE [CNCISD]	1	AP
6	Q C N W - 4 7 9 9 S C Z Z	CABLE [CNPNB]	1	AX
7	Q C N W - 4 8 0 0 S C Z Z	CABLE [CNPRTB]	1	AZ
8	Q C N W - 4 8 0 1 S C Z Z	CABLE [CNSES]	1	AU
9	Q C N C M 2 4 0 1 S C 0 B	CONNECTOR [CNSES]	1	AA
10	Q C N C M 2 4 0 1 S C 0 F	CONNECTOR [CNPHOTA,CNPHOTB]	2	AB
11	Q C N C M 2 4 8 2 S C 2 J	CONNECTOR [CNPNA,CNPNB]	2	AE
12	Q C N C M 2 4 8 2 S C 2 H	CONNECTOR [CNPRTA,CNPRTB]	2	AG
13	Q C N C M 7 0 1 4 S C 0 B	CONNECTOR [CNSPA,CNSPB]	2	AD
14	Q C N C M 7 0 1 4 S C 0 E	CONNECTOR [CNIRA,CNIRB]	2	AB
15	Q C N C M 7 0 1 4 S C 0 F	CONNECTOR [CNMMA,CNMMB]	2	AB
16	Q C N C M 7 0 1 4 S C 1 B	CONNECTOR [CNCISC,CNCISD]	2	AD
17	V H P S G 2 0 6 S / - 1	PHOTO TRANSISTOR [PE]	1	AG
18	V R D - H T 2 E Y 2 2 1 J	RESISTOR (1/4W 220Ω ±5%) [R1]	1	AA
19	Q S W - Z 2 2 0 6 S C Z Z	HOOK SWITCH [HOOKSW]	1	AH

UX-2700CMIT
FO-2550CMIT

Extension printer board unit



EXTENSION PRINTER PWB

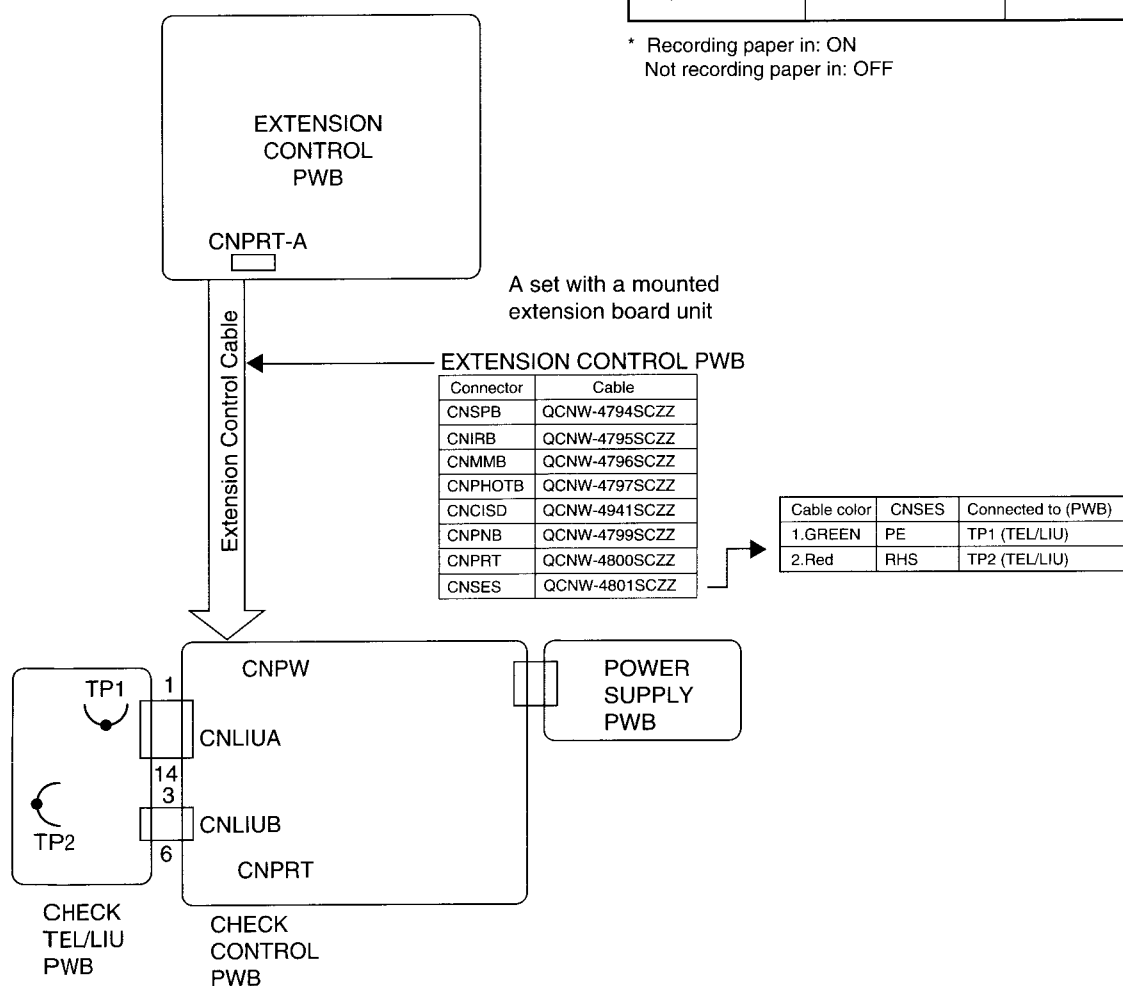
NO.	PARTS CODE	DESCRIPTION	QTY	PRICE RANK
1	QC NW - 4802SCZZ	CABLE [CNP1]	1	AU
2	QC NW - 4803SCZZ	CABLE [CN1-B]	1	AM
3	QC NW - 4804SCZZ	CABLE [CN2-B]	1	AM
4	QC NW - 4805SCZZ	CABLE [CN3-B],[CN4-B]	2	AW
5	QC NCM7014SC0B	CONNECTOR [CNP1]	1	AD
6	QC NCM7014SC0D	CONNECTOR [CN2-A],[CN2-B]	2	AB
7	QC NCM7014SC0E	CONNECTOR [CN1-A],[CN1-B]	2	AB
8	QC NCW2556SC3B	CONNECTOR [CN3-A],[CN3-B],[CN4-A],[CN4-B]	4	AG
9	VHP SG206S/-1	PHOT INTERRUPTER [PC1]	1	AG
10	VRD-HT2EY471J	RESISTOR (1/4W 470Ω ±5%) [R1],[R2]	2	AA

2. Description

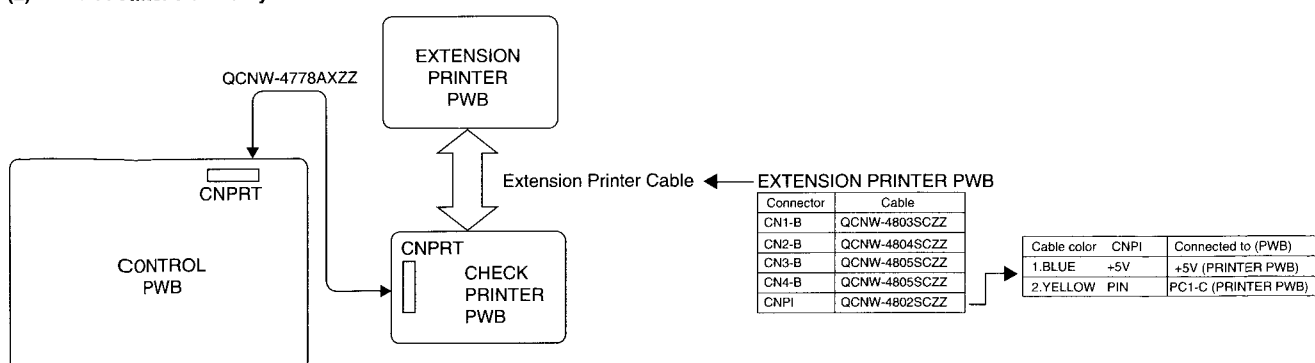
2-1. Extension board unit

1. Remove the TEL/LIU PWB, control PWB and Power Supply PWB from this unit, and mount the extension board unit instead.
 - Before connecting the wiring to the extension board unit, set the test PWB switches to the fixed position.
2. The setting is as follows.

(1). Check Control PWB only

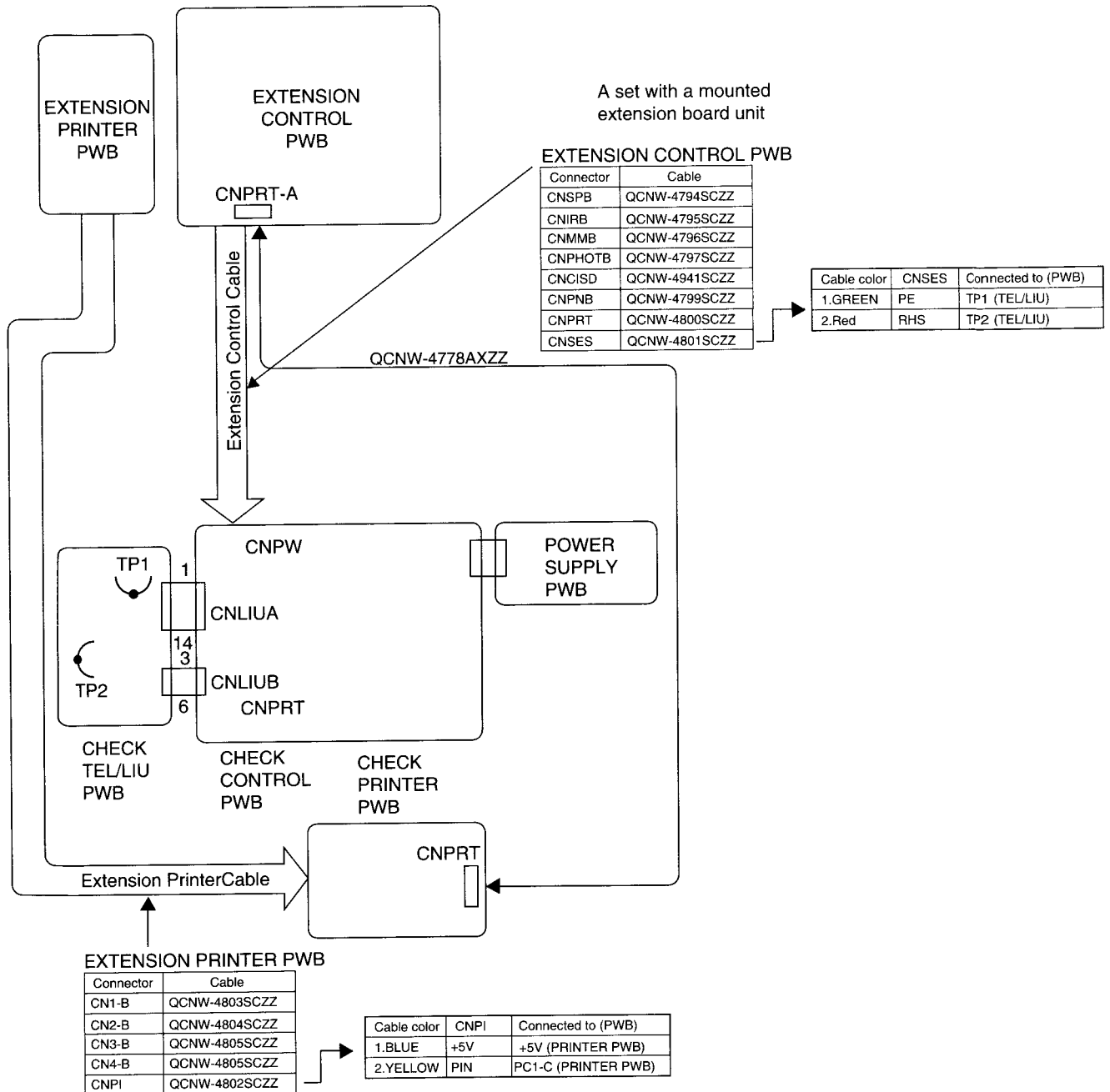


(2). Check Printer PWB only



UX-2700CMIT
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(3). Check Printer PWB and Control PWB



3. Scanner calibration sheet (Shading sheet)

Be sure to perform this operation when replacing the battery or replacing the control PWB. Execute in the shading mode of DIAG mode.

SCANNER CALIBRATION SHEET FOR FULL COLOUR MFP
INSERT WITH THIS SIDE UP. ▲

(PSHEZ3427SCZZ)

FEUILLE DE CALIBRAGE DE SCANNER POUR IMF COULEUR
INSÉREZ CE CÔTÉ VERS LE HAUT.

SCANNER-KALIBRIERBLATT DIESE SEITE NACH OBEN

Calibrate the scanner with the calibration sheet whenever the quality of scanned colour images is not desirable (clean the scanning glass before performing calibration). Instructions for using the calibration sheet and cleaning the scanning glass can be found in Chapter 11, Part 1 of your online Operation Guide on the Colour Multifunction Interface CD.

Calibrez le scanner à l'aide de cette feuille chaque fois que la qualité des images couleur scannées laisse à désirer (nettoyez la vitre de balayage avant de procéder au calibrage). Les directives d'emploi de la feuille de calibrage et de nettoyage de la vitre de balayage se trouvent au chapitre 11, de la partie 1 du Mode d'emploi en ligne du CD d'interface multifonctionnelle couleur.

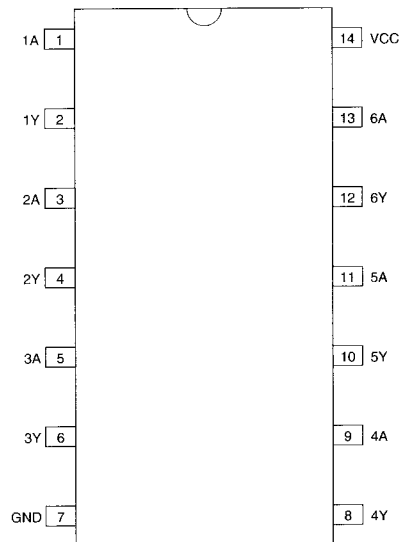
Sofern die Qualität der gescannten Farben nachläßt, ist es notwendig den Scanner mit Hilfe des Kalibrierblattes zu kalibrieren (bitte die Scannerleiste vor dem Kalibrieren reinigen). Anweisungen zum Benutzen des Kalibrierblattes stehen im Kapitel 11, Teil 1 der Online-Bedienungsanleitung der Utility-Software CD-ROM.

UX-2700CMIT
FO-2550CMIT
[2] IC signal name

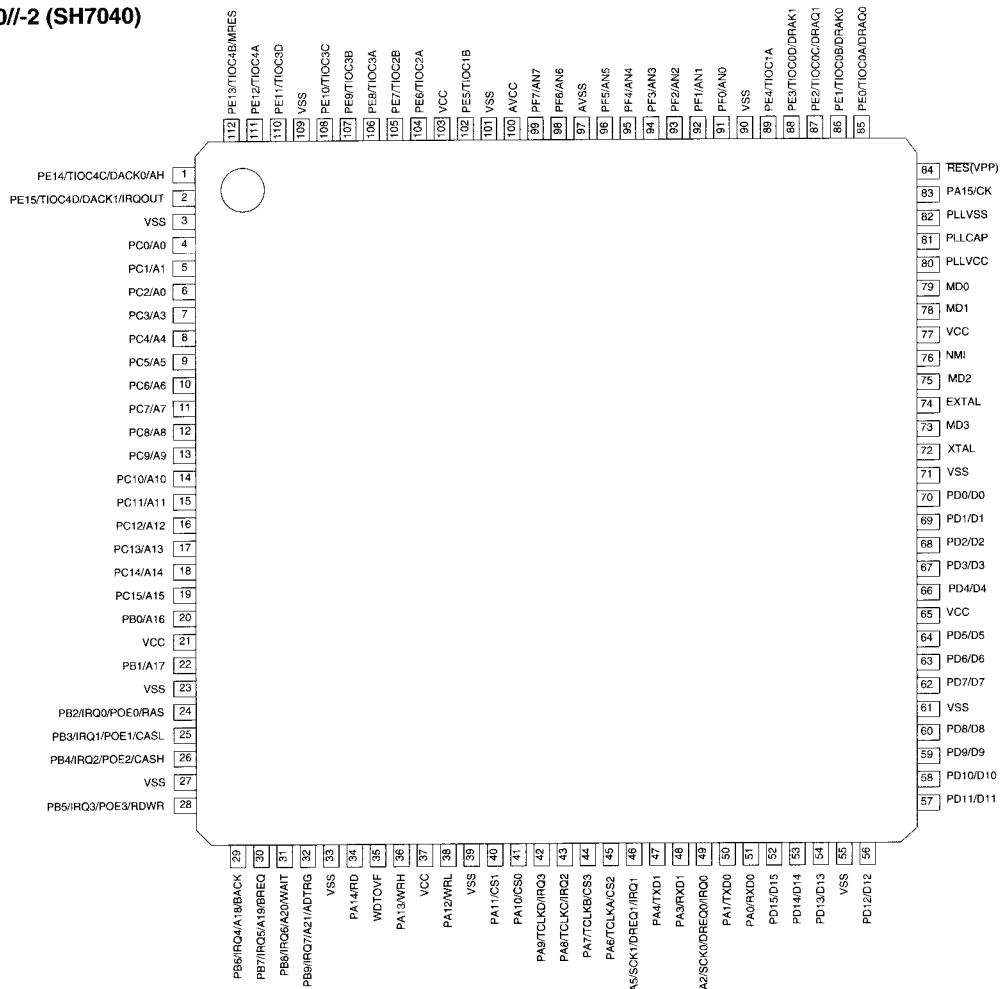
CONTROL PWB UNIT

IC5, IC9: VHi74HCU04S-1 (74HCU04)
IC12: VHiSN74HC14NS (74HC14)
IC15: VHiSN74HC04NS (HC04)

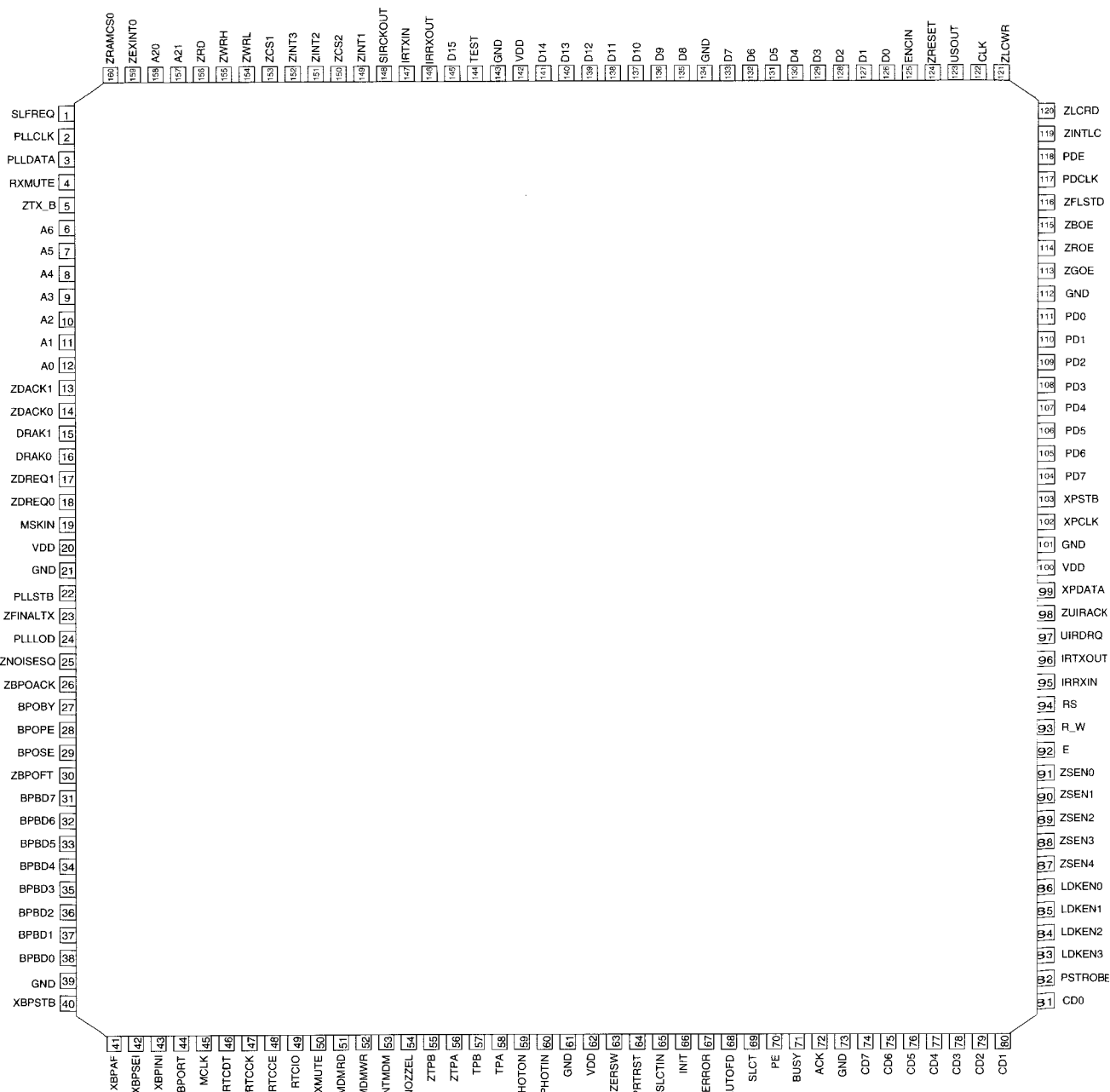
TOP VIEW



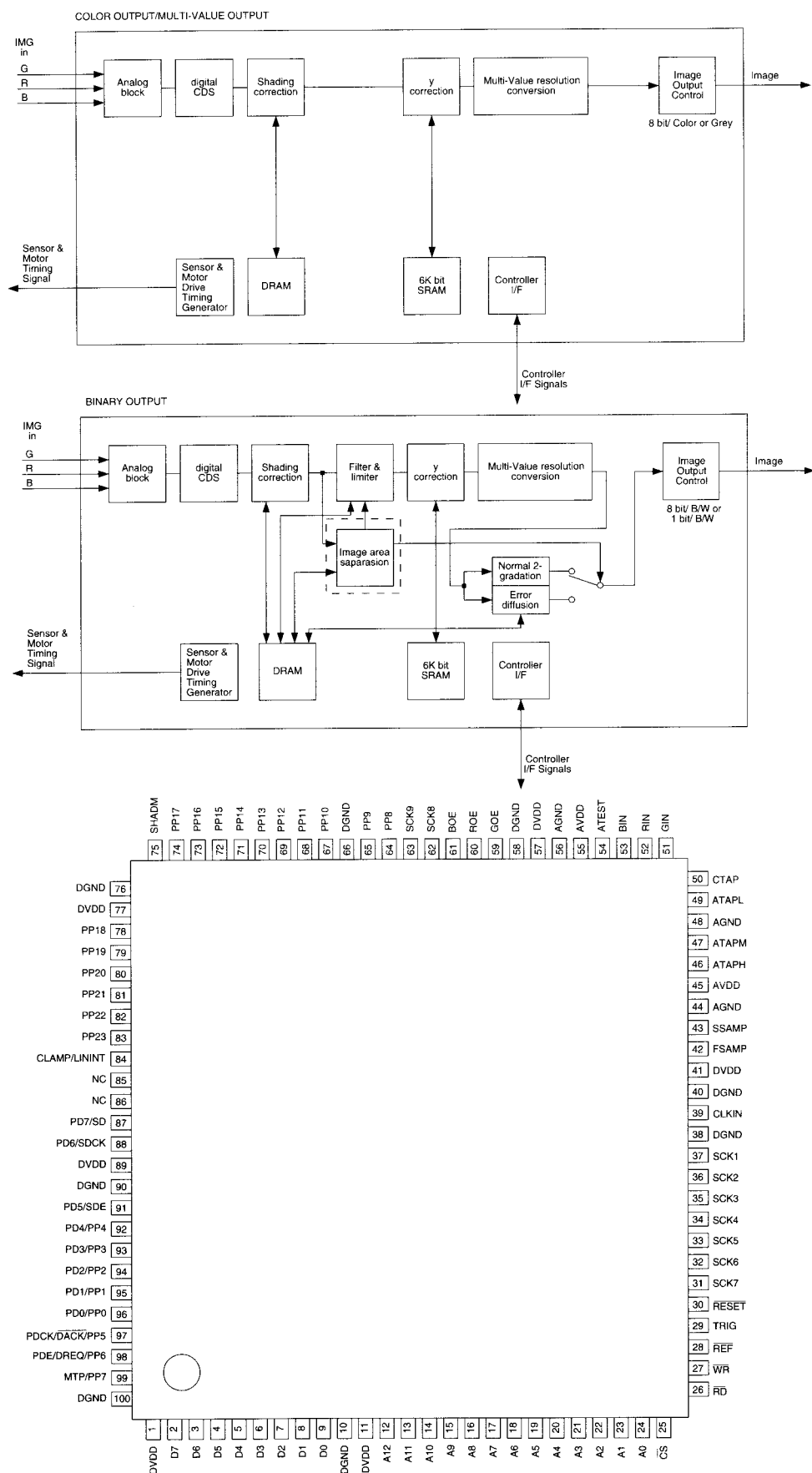
IC11: VHiSH7040//2 (SH7040)



IC10: VHiLZ9FJ49/-1 (LZ9FJ49)



UX-2700CMIT
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IC6: VHILC821040N4 (LC821040-NF4)



LC821040-NF4 (IC6) Terminal Function

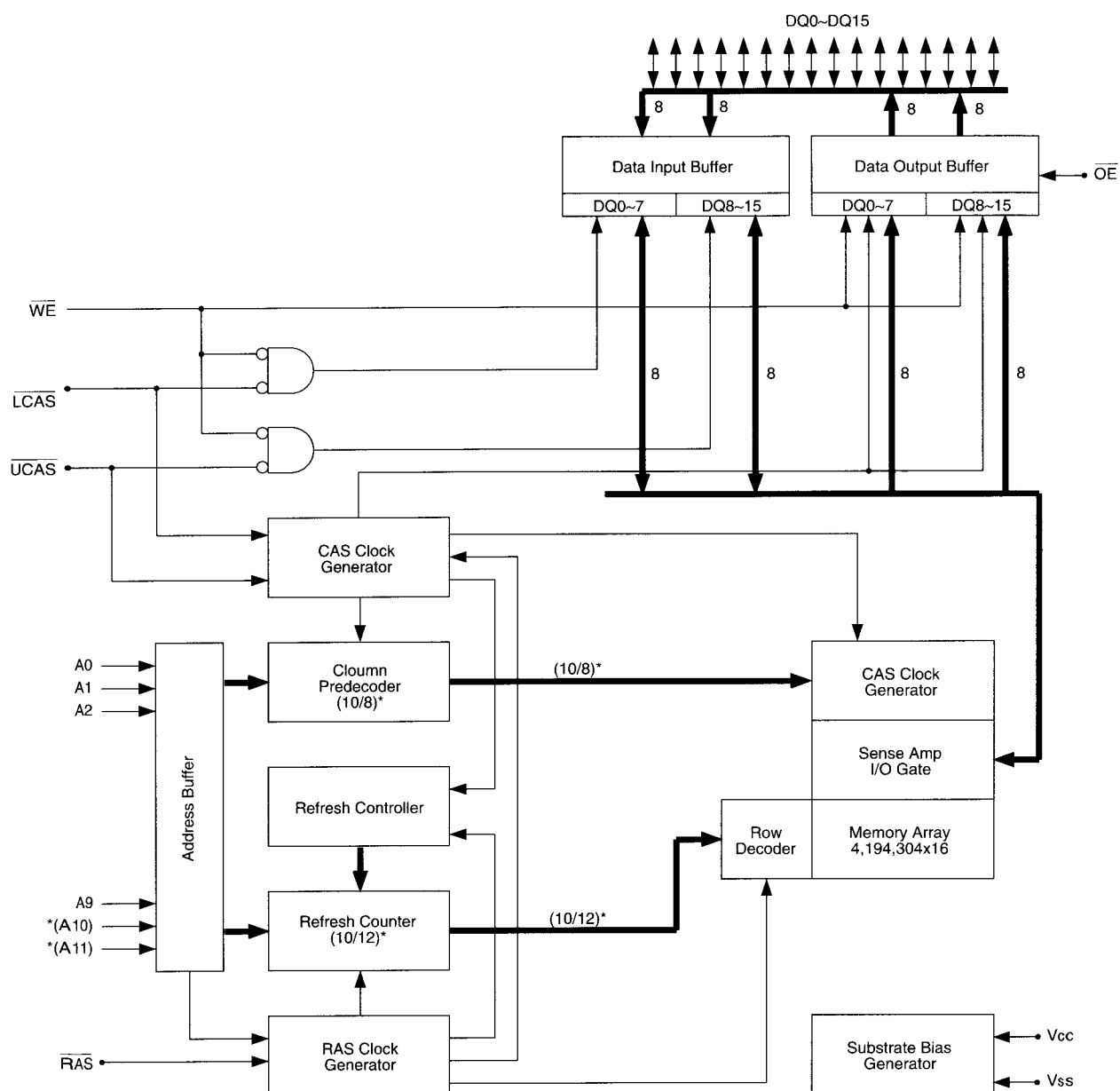
Pin NO.	Signal Name	I/O	Function
1	DVDD	P	Digital power terminal
2	D7	B	CPU interface data bus terminal D7/MSB , D0/LSB terminal
3	D6	B	
4	D5	B	
5	D4	B	
6	D3	B	
7	D2	B	
8	D1	B	
9	D0	B	
10	DGND	P	Digital ground terminal
11	DVDD	P	Digital power terminal
12	A12	I	CPU interface address bus terminal A12/MSB , A0/LSB terminal
13	A11	I	
14	A10	I	
15	A9	I	
16	A8	I	
17	A7	I	
18	A6	I	
19	A5	I	
20	A4	I	
21	A3	I	
22	A2	I	
23	A1	I	
24	A0	I	
25	CS	I	CPU interface chip selection signal terminal
26	RD	I	CPU interface reading signal terminal
27	WR	I	CPU interface writing signal terminal
28	REF	I	DRAM refresh signal input terminal
29	TRIG	I	External trigger signal input terminal
30	RESET	I	System reset terminal
31	SCK7	O	Sensor drive signal output terminal
32	SCK6	O	
33	SCK5	O	
34	SCK4	O	
35	SCK3	O	
36	SCK2	O	
37	SCK1	O	
38	DGND	P	Digital ground terminal
39	CLKIN	I	System clock input terminal
40	DGND	P	Digital ground terminal
41	DVDD	P	Digital power terminal
42	FSAMP	O	Floating point monitor signal output terminal
43	SSAMP	O	Sensor data point monitor signal output terminal
44	AGND	P	Analog ground terminal
45	AVDD	P	Analog power terminal
46	ATAPH	O	Analog intermediate terminal for A/D converter high reference
47	ATAPM	O	Analog intermediate terminal for A/D converter middle reference
48	AGND	P	Analog ground terminal
49	ATAPL	O	Analog intermediate terminal for A/D converter low reference
50	CTAP	O	Analog intermediate terminal for analog clamp
51	GIN	I	Green sensor signal input terminal
52	RIN	I	Red sensor signal input terminal
53	BIN	I	Blue sensor signal input terminal
54	ATEST	O	Analog test terminal (normal open)
55	AVDD	P	Analog power terminal
56	AGND	P	Analog ground terminal
57	DVDD	P	Digital power terminal
58	DGND	P	Digital ground terminal
59	GOE	O	Green data valid period signal terminal
60	ROE	O	Red data valid period signal terminal
61	BOE	O	Blue data valid period signal terminal

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Pin NO.	Signal Name	I/O	Function
62	SCK8	O	Sensor drive signal output terminal
63	SCK9	O	
64	PP8	B	General input/output port terminal
65	PP9	B	
66	DGND	P	Digital ground terminal
67	PP10	B	General input/output port terminal
68	PP11	B	
69	PP12	B	
70	PP13	B	
71	PP14	B	
72	PP15	B	
73	PP16	B	
74	PP17	B	
75	SHADM	O	Distortion correction valid period signal output terminal
76	DGND	P	Digital ground terminal
77	DVDD	P	Digital power terminal
78	PP18	B	General input/output port terminal
79	PP19	B	
80	PP20	B	
81	PP21	B	
82	PP22	B	
83	PP23	B	
84	CLAMP/LININT	O	Clamp point monitor signal output/Line signal output terminal
85		NC	
86		NC	
87	PD7/SD	O	DMA output/Serial data output terminal
88	PD6/SDCK	O	DMA output/Serial transmission clock output terminal
89	DVDD	P	Digital power terminal
90	DGND	P	Digital ground terminal
91	PD5/SDE	O	DMA output/Serial data output valid period signal terminal
92	PD4/PP4	B	DMA output/General input/output port terminal
93	PD3/PP3	B	
94	PD2/PP2	B	
95	PD1/PP1	B	
96	PD0/PP0	B	
97	PDCK/DACK/PP5	B	Parallel data transmission clock output/DMA data acknowledge signal input/ General input/output port terminal
98	PDE/DREQ/PP6	B	Parallel data output valid period signal terminal/DMA data request signal output/ General input/output port terminal
99	MTP/PP7	B	Motor drive timing signal output/General input/output port terminal
100	DGND	P	Digital ground terminal

TYPE				
I	INPUT	B	BIDIRECTION	NC
O	OUTPUT	P	POWER	

IC19 , IC24: VHiHY18164CJ6 (HY5118164CJC-60)

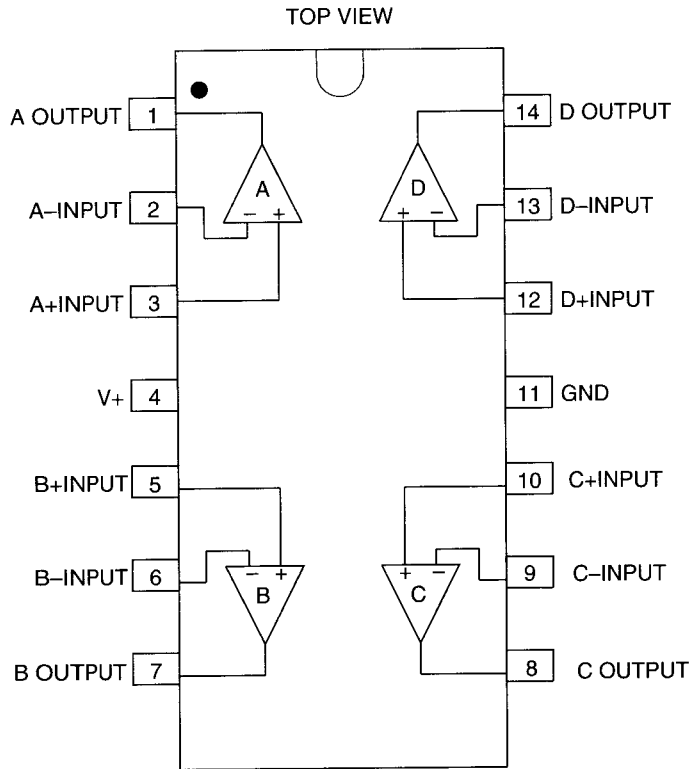


*(A10) and *(A11) for 4K refresh part
(1K Refresh / 4K Refresh)

UX-2700CMIT
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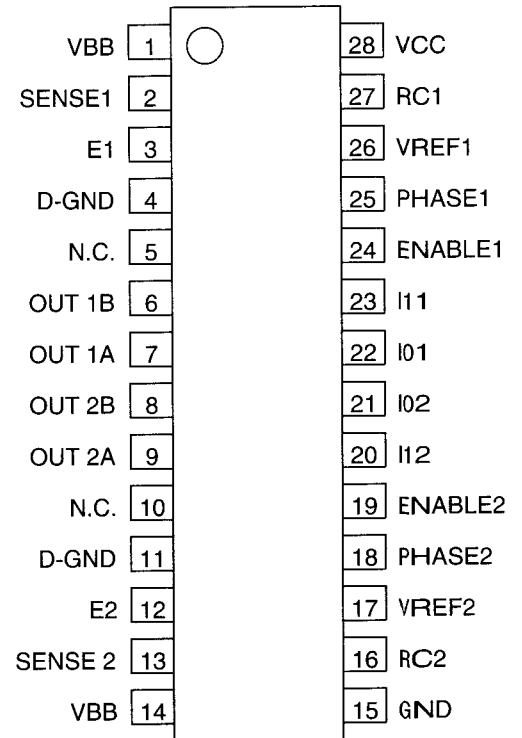
INK SENSOR PWB UNIT

IC1: VHiNJM324M/-1 (NJM324M)



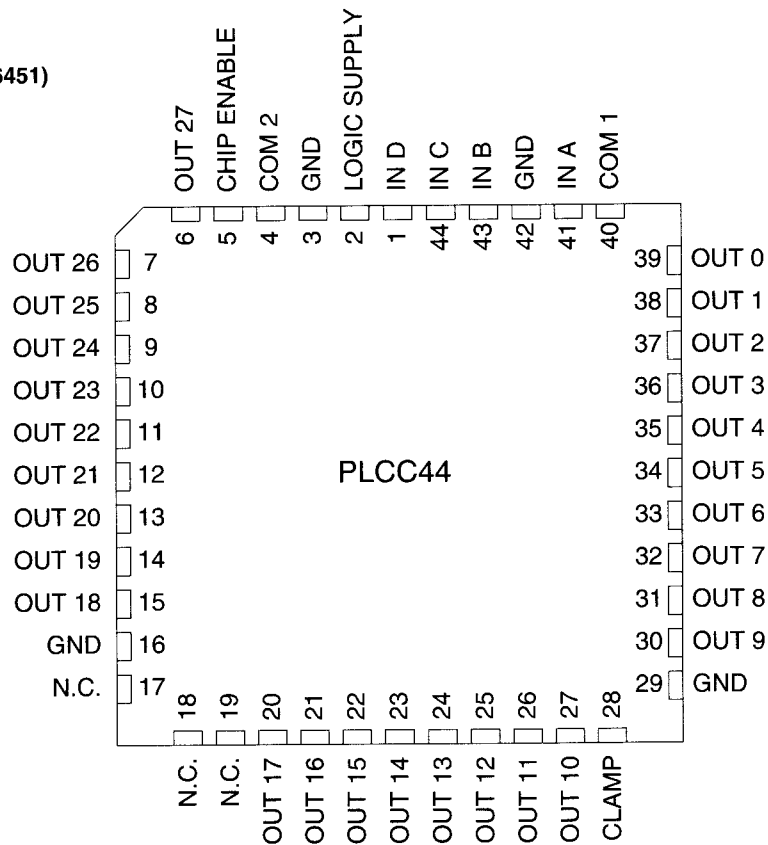
PRINTER PWB UNIT

IC1: VHiLB1845//1 (LB1845)

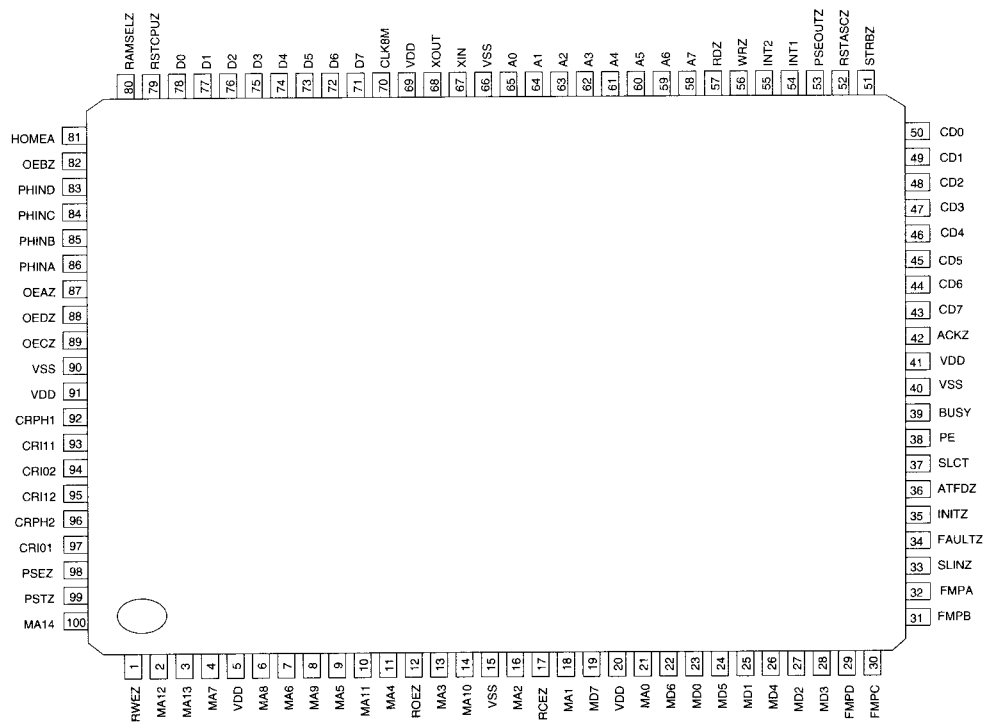


PRINTER PWB UNIT

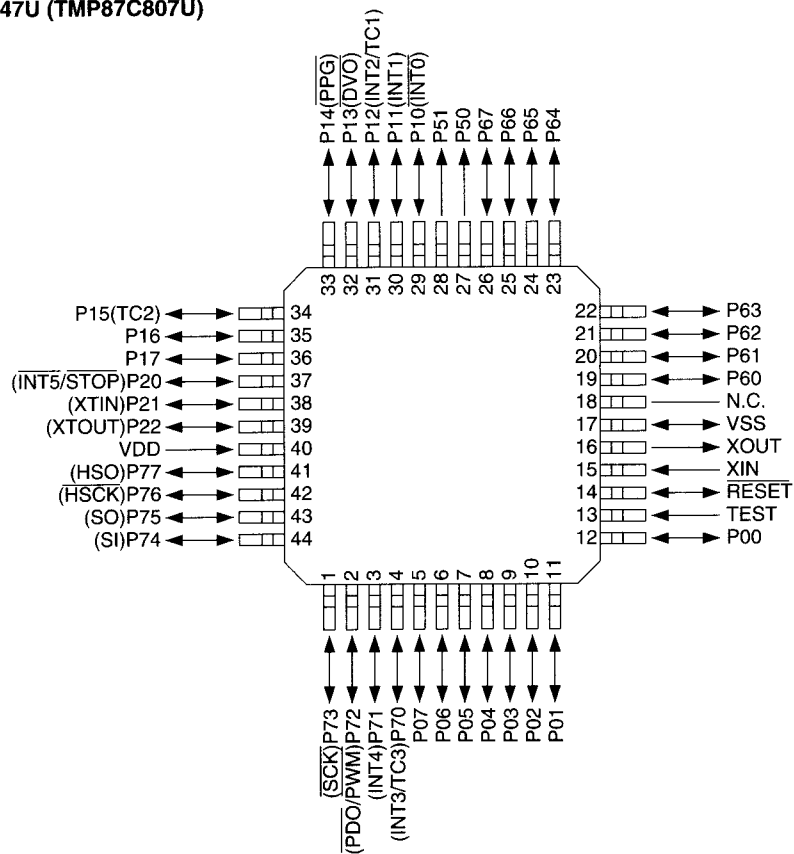
IC4, IC6: VHiL6451///-1 (L6451)



IC5: VHiTC190G04AF (TC190G04)



IC8: VHiTMP87PH47U (TMP87C807U)



CHAPTER 9. INK JET PRINTER

[1] Engine specifications

1. Mechanism

Resolution	: 600 dpi x 600 dpi addressability
Print Speed	: 3 PPM draft text with black cartridge
Print Swath	: 8 inches
Duty Cycle	: Up to 500 pages per month maximum, 170 pages per month average
Dimensions (approximate)	: 350mm x 125mm x 60mm
Weight (approximate)	: 1.2 pounds
Acoustics	: 45 dBA in letter quality mode (using Lexmark paper feed and covers which is not included)

2. Electrical

No electrical hardware included with the type B engine except for the carrier drive stepping motor and the Sensor FPC assembly which includes a photo interrupter for sensing home position, the carrier cables and the printhead cable.

3. Print Cartridges (Print Cartridges are supply items and sold separately)

Black Print Cartridge	: 56 Nozzles Pigment based(water proof) High yield cartridge Up to 1000 pages at 5% coverage
Color Print Cartridge	: 48 Nozzles(16 Nozzles each of cyan, magenta and yellow) Fade resistant ink 300 pages average at 15% coverage of 3 colors (5% coverage of each color)

[2] Abbreviations

EOF	End-of Form
ESD	Electrostatic Discharge
FRU	Field Replaceable Unit
HVPS	High Voltage Power Supply
LVPS	Low Voltage Power Supply
NVRAM	Nonvolatile Random Access Memory
OEM	Original Equipment Manufacturer
POST	Power-On Self Test
V ac	Volts alternating current
V dc	Volts direct current
ZIF	Zero Insertion Force

[3] Diagnostic information

Start

Power-OnSelf Test (POST) Sequence

When you turn the printer on it performs a POST. Turn the machine on and check for a correct POST operation by observing the following:

1. The carrier moves.
2. The paper feed gears turn.
3. After 30 seconds the carrier moves over the maintenance station and caps the printhead.
4. All motors stop.

[4] Circuit description

1. General description

The compact design of printer PWB is obtained by using 8 bit microprocessor(CPU) and ASIC in the printer control section.

2. Electrical System

The PWB provides mechanical control for Ink Jet Printer.

Figure 1 shows the interconnection of PWB and other electrical component in the print mechanism.

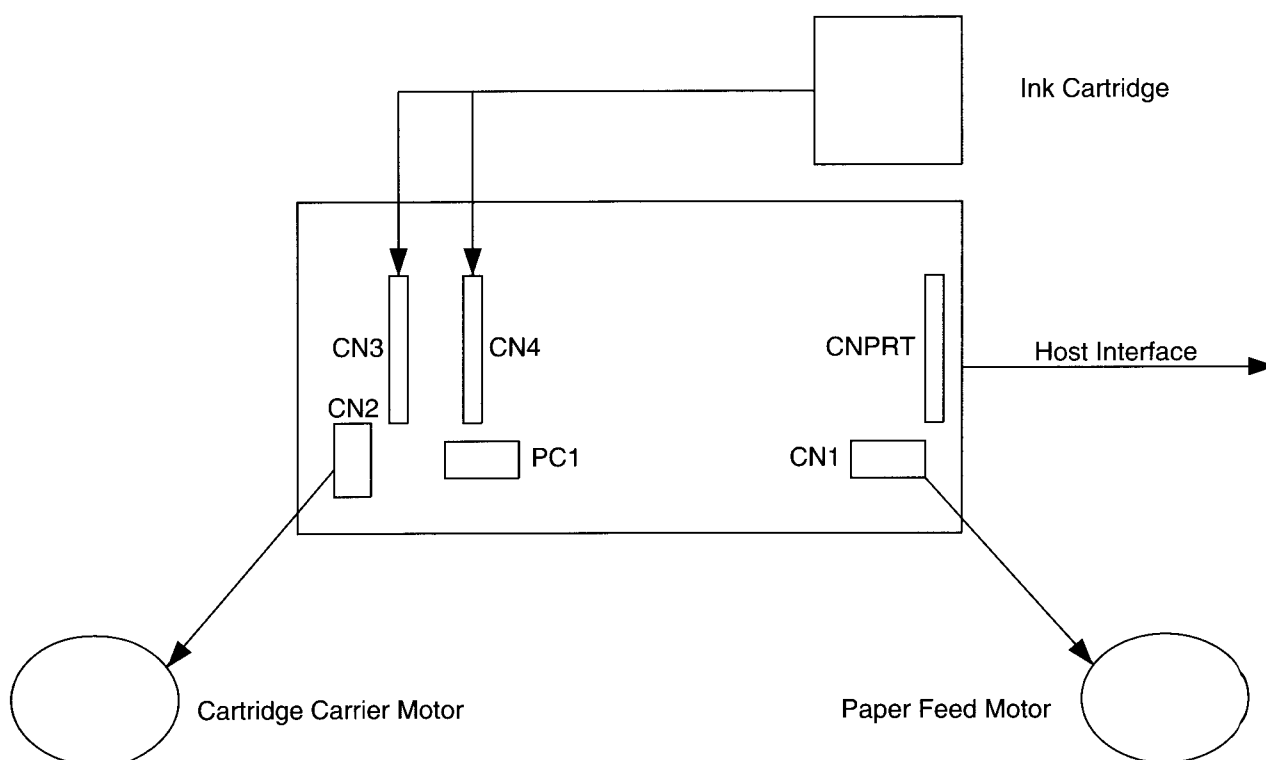


Figure 1

UX-2700CMIT
FO-2550CMIT

3. Electrical Overview

The information in this section appears in a sequence relative to the system diagram in the following figure.

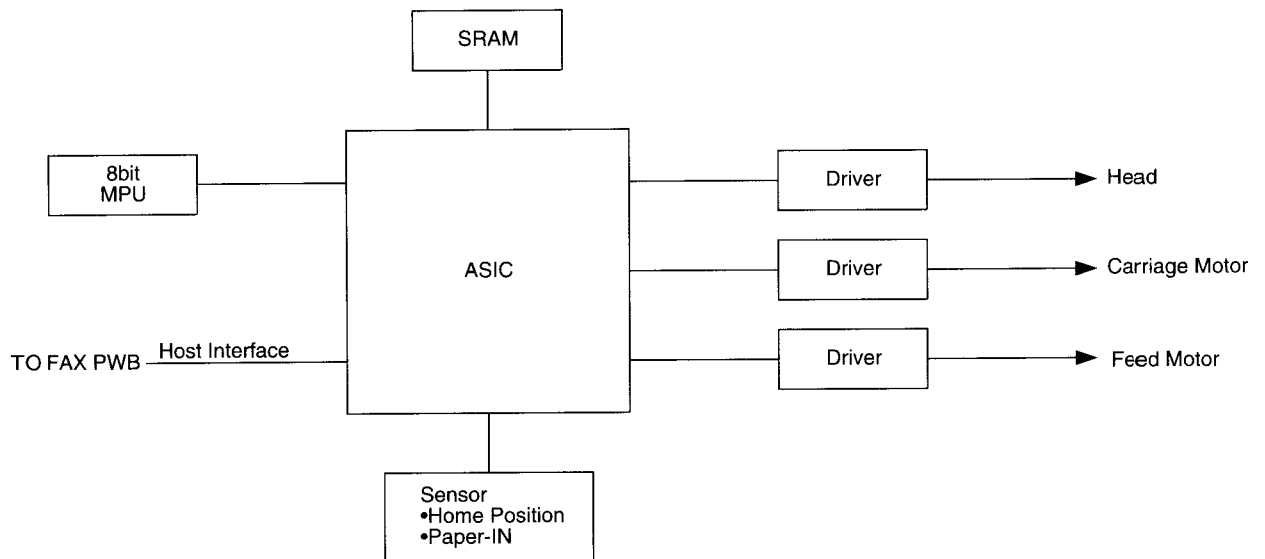


Figure 2 System of printer Block diagram

4. Power Supply Connector

The mechanism requires two voltages (+5V and +24V). These two voltages supplied from CNPRT connector.

5. Host interface connector

Connector CNPRT on the printer PWB provides 28 lines from the host unit, for control of various operating options available to the host.

The two primary functions of the host interface are:

- Printing data for the Ink Jet Printer.
- Error status to the host.

6. ASIC, RAM, and CPU

The Application Specific Integrated Circuit(ASIC) combines several blocks of circuitry into one chip.

Descriptions of circuitry within the ASIC appear later in the section.

A microprocessor bus, which extends inside the ASIC, carries data among the CPU(include internal ROM), RAM, and ASIC circuitry.

The ROM (inside CPU) is a 8K Byte chip that contains the software code (firmware) for the Ink Jet Printer.

The RAM is a 32 K Byte chip that stores print data and other variable information.

7. Driver IC

The paper motor and carriage motor require current that cannot be driven directly from ASIC chip.

Motor driver IC provide the additional current and voltage capability.

The driver IC (IC1 and IC2) located near the respective motor connector on the printer PWB also connect back to the ASIC.

Two additional drivers IC drive 56 nozzles on the cartridge.

These driver ICs , located between the two flex-circuit connector (CN3 and CN4) on the printer PWB , also connected back to the ASIC.

The out-of-paper sensor do not require drivers, and connect directly to the ASIC.

The Host interface also connects directory to the ASIC.

8. Paper Motor

The ASIC controls the paper motor, which is a stepper motor that connects via a 5 pin connector to CN1 on the printer PWB.

The stepper motor is a 4-coil motor, which must be stepped in proper sequence, requiring four signal lines to initiate each line.

This is an open-loop system that does not provide feedback to the logic circuit on printer PWB.

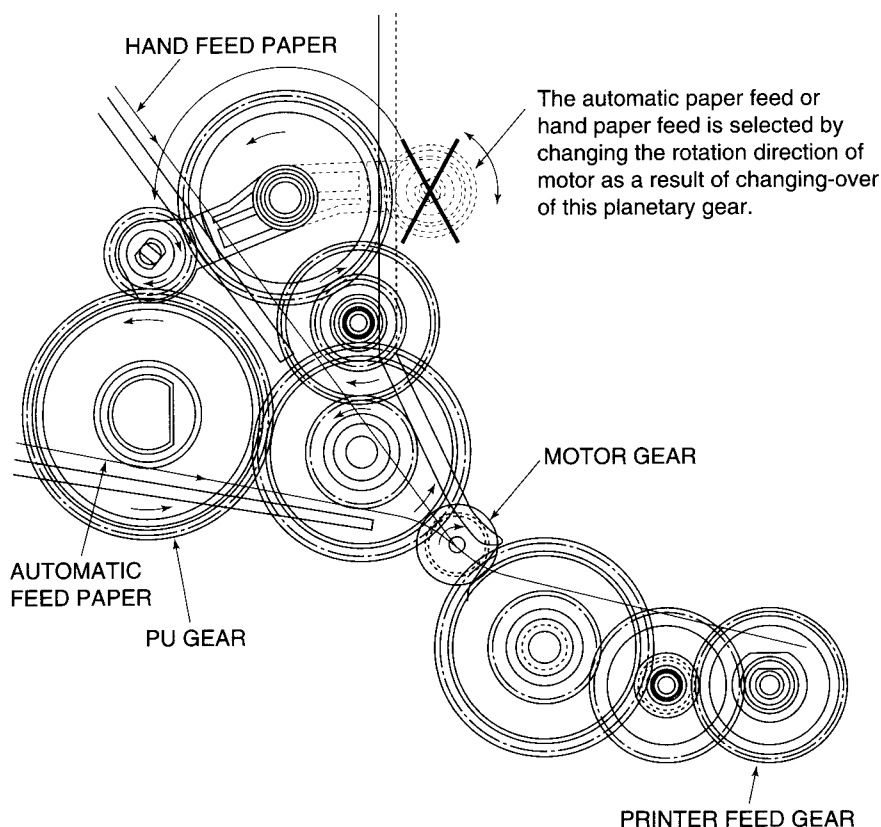
The Paper motor drives the recording paper movement.

The planetary gear is changed over according to the rotation direction of this motor.

Accordingly,hand paper feed or automatic paper feed is selected.

(1) Paper feed(paper feed from tray)

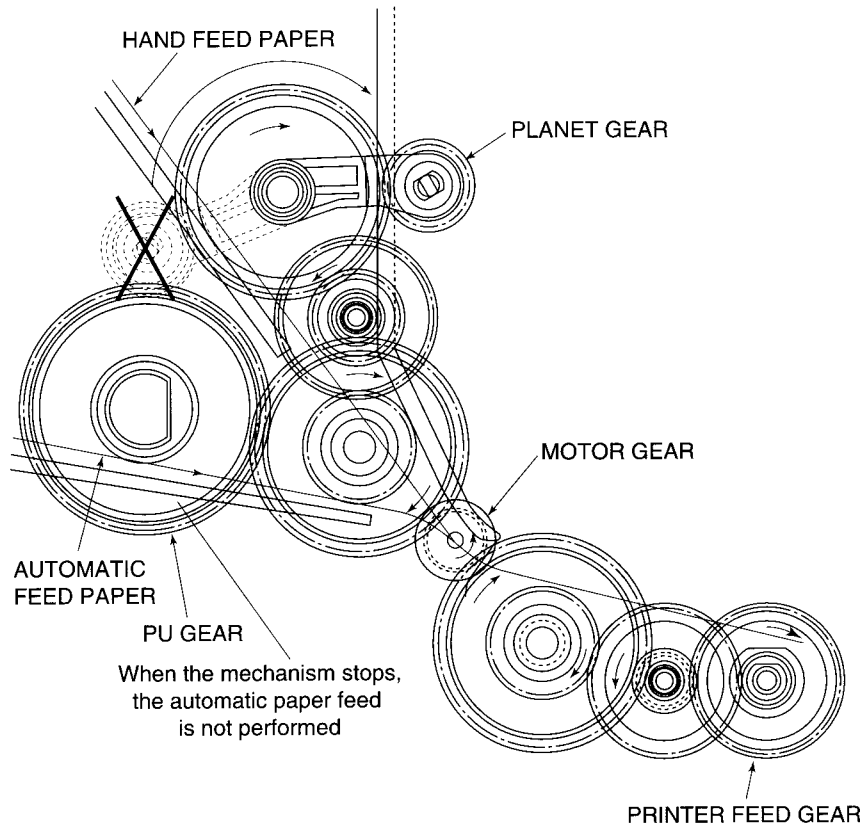
The planetary gear turns counterclockwise and is connected to the PU gear,so that paper is fed automatically.



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FO-2550CMIT

(2) Print transfer

The planetary gear turns clockwise and is disconnected from the PU gear, so that the paper is not fed automatically. In case of hand paper feed the paper is fed directly to the transfer roller.



9. Carriage Motor

The ASIC controls the carriage motor, which is a stepping motor that connects via a 4-pin connector to CN2 on the printer PWB.

10. INK Cartridge Carriage

The carriage connects via a flex circuit that plugs into the 32 pin connectors, CN3 and CN4 on the printer PWB. The ink cartridge contacts connect to the carriage contacts. The ASIC controls the carriage, and ink cartridge.

11. Paper IN Sensor

The Paper-IN-Sensor exists on printer PWB.

This sensor is an optical sensor. If the optical route is interrupted, Collector PIN(pin-C) of this sensor indicates Hi-Level(5V). If the optical route is open, pin-C indicates Low-Level(0V).

This sensor provides information of front and end edge location of recording paper and information of paper jam. The change between Hi and Low of this sensor(PC1 pin-C) is used as follows.

1. In the case of manual paper feeds

When the recording paper is inserted from By-pass route, the front edge of this recording paper pushes the lever, and this sensor indicates L.

Paper feed action is happened by this change and recording paper is fed in constant length.

As paper feeds out of paper path, the lever returns, this sensor indicates H and provides information of end edge of the recording paper.

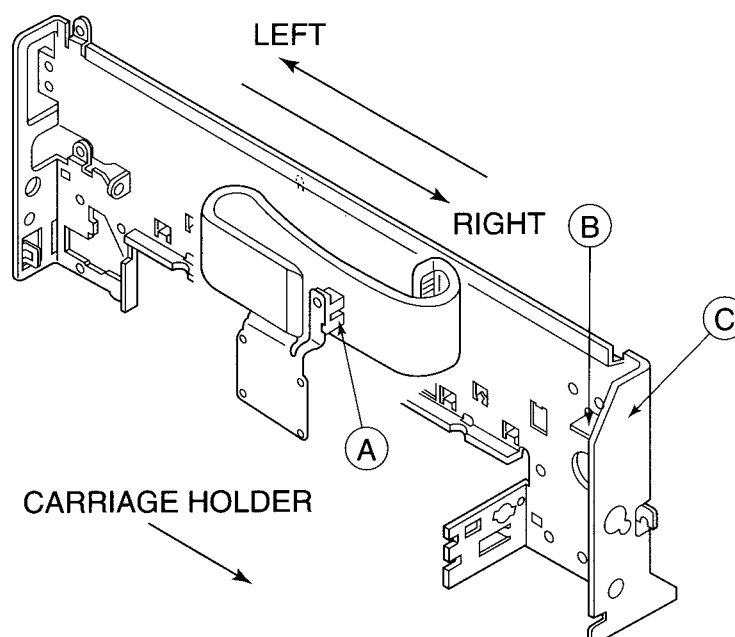
2. In the case of auto paper feeds

When printing action happens and there is no recording paper at By-pass route and there are some recording papers at auto paper providing unit, the feed motor is driven and the recording paper is fed from auto paper providing unit.

At this time, the change from H to L of this sensor provides the front edge of the recording paper. And this sensor provides information of paper jam, when this sensor DOES NOT change from H to L after some time.

As paper feeds out of paper path, the lever returns, this sensor indicates H from L and provides the information of end edge of the recording paper.

12. Home Position Sensor



The home position of carriage is detected as a result of change of output of photointerrupter (A) which is caused due to shutting-off of optical path of photointerrupter (A) by the slit (B).

While the photointerrupter is shut off by the slit B, the output (pin 1 of CN3) of photointerrupter gets H level (+5V). If it is not shut off, the output gets L level (0V).

In the home position the output is L. In case of L direction movement the output is H during passing through the slit, and after passing the output gets again L level.

The operation logic is as follows.

– Insignificant movement in L direction

(1) If in this case the output is L:

It is judged that the carriage exists in the L direction as compared to the slit (B). The carriage is moved in the R direction, so that the output changes from L to H (during passing through the slit (B)). Further the carriage is moved in the R direction. The position where H changes to L again is regarded as a home position.

(2) If in this case the output is H:

It is judged that the carriage exists near the home position, the carriage is moved in the R direction. The position where the output is changed from H to L is regarded as a home position.

Operation in case of malfunction of photointerrupter (A).

Case 1: When the output of photointerrupter remains H.

As is evident from the operation logic, the H output does not continue for a long time in case of normal operation. Hence, this state is judged to be abnormal. The carriage stops soon after it moves insignificantly.

Case 2: When the output of photointerrupter remains L.

The carriage is going to move according to the operation logic. Since the output remains L even when the sensor passes through the slit (B), the home position cannot be found, and the carriage moves continuously in the R direction. Finally, it contacts the frame (C), emitting an abnormal sound. The abnormal state is detected, and the motor stops.

[5] Overall troubleshooting of printer PWB

• BOTH CARRIAGE MOTOR AND FEED MOTOR ARE NG.

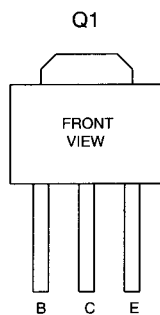
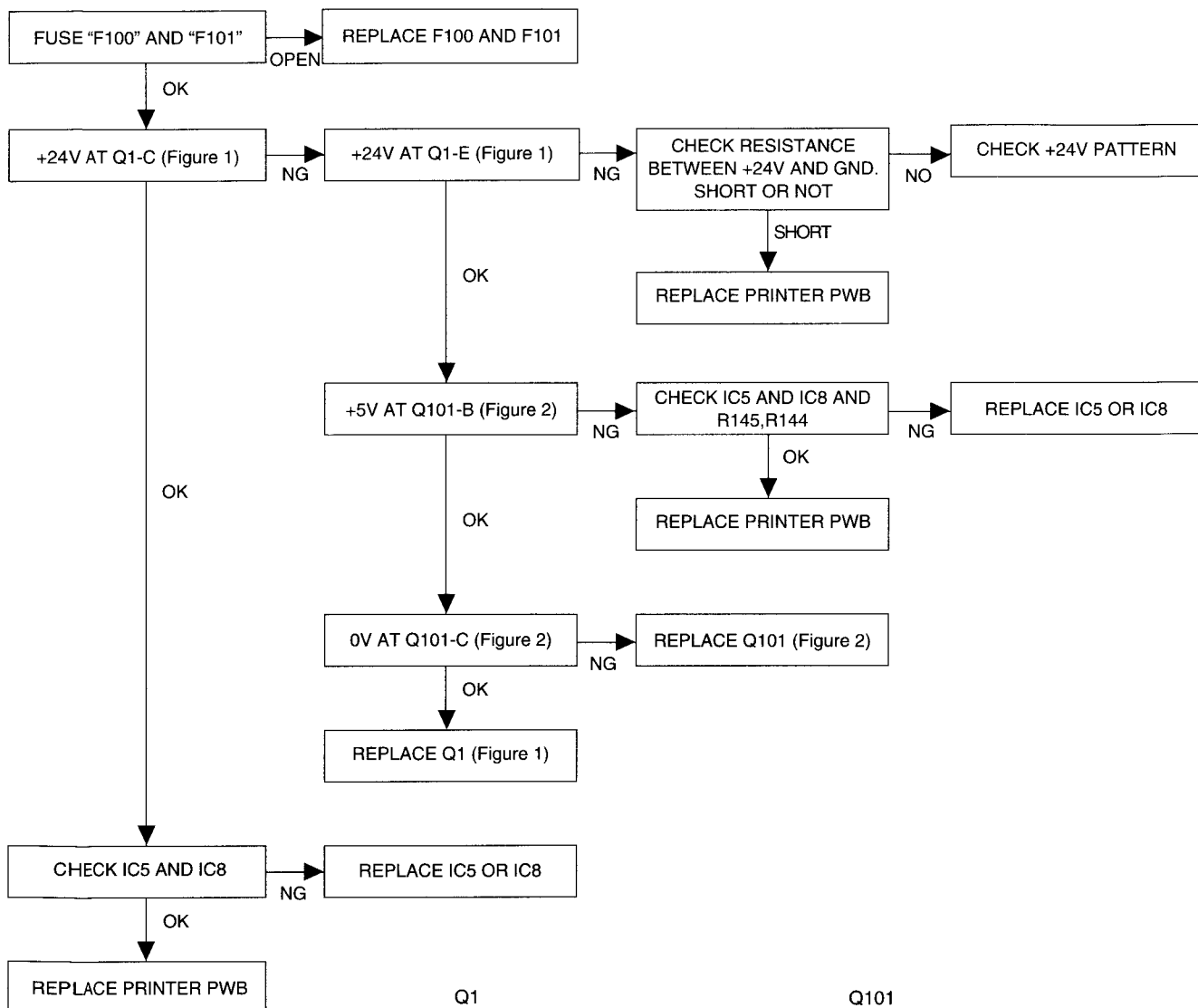


Figure 1

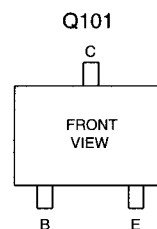
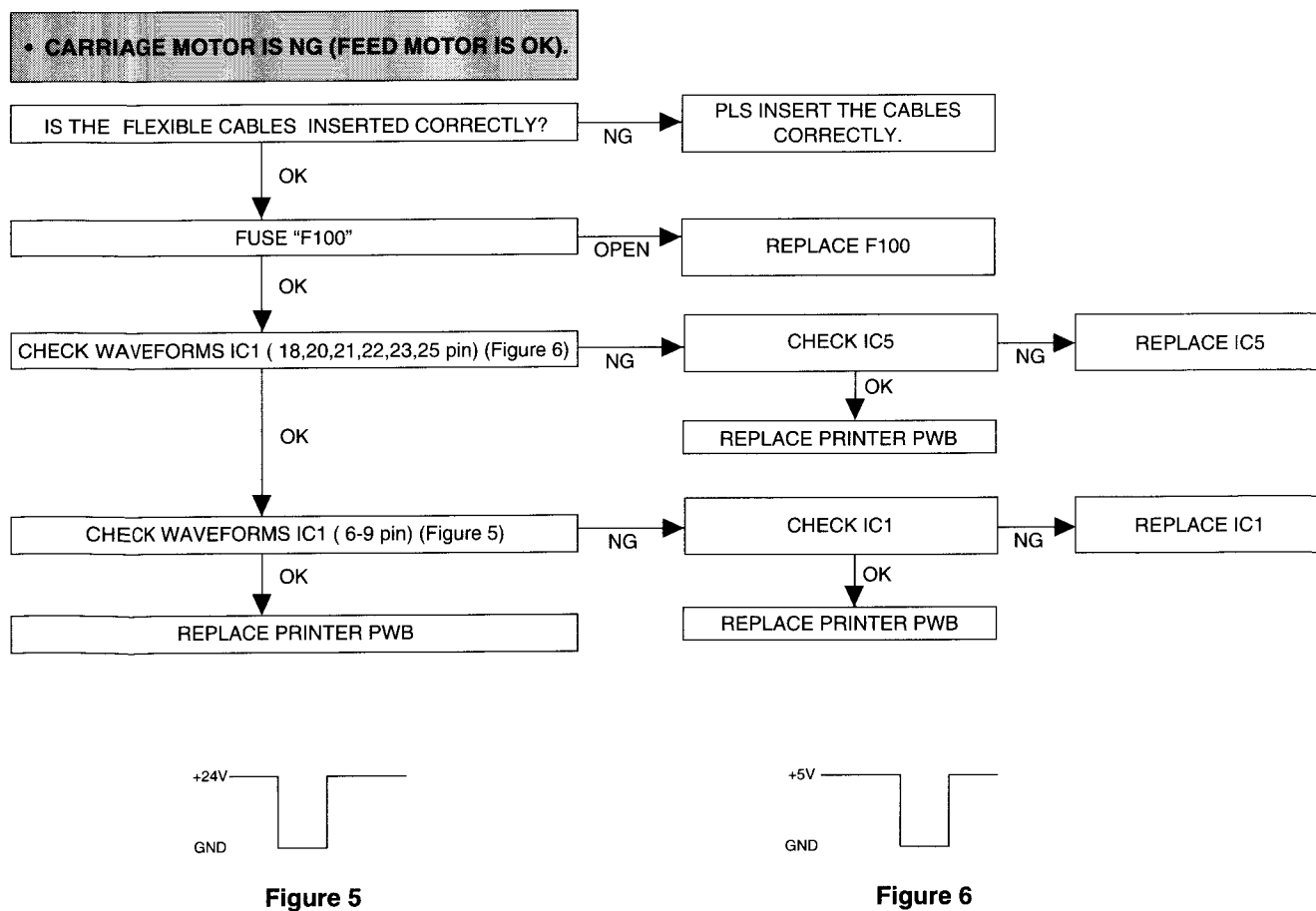
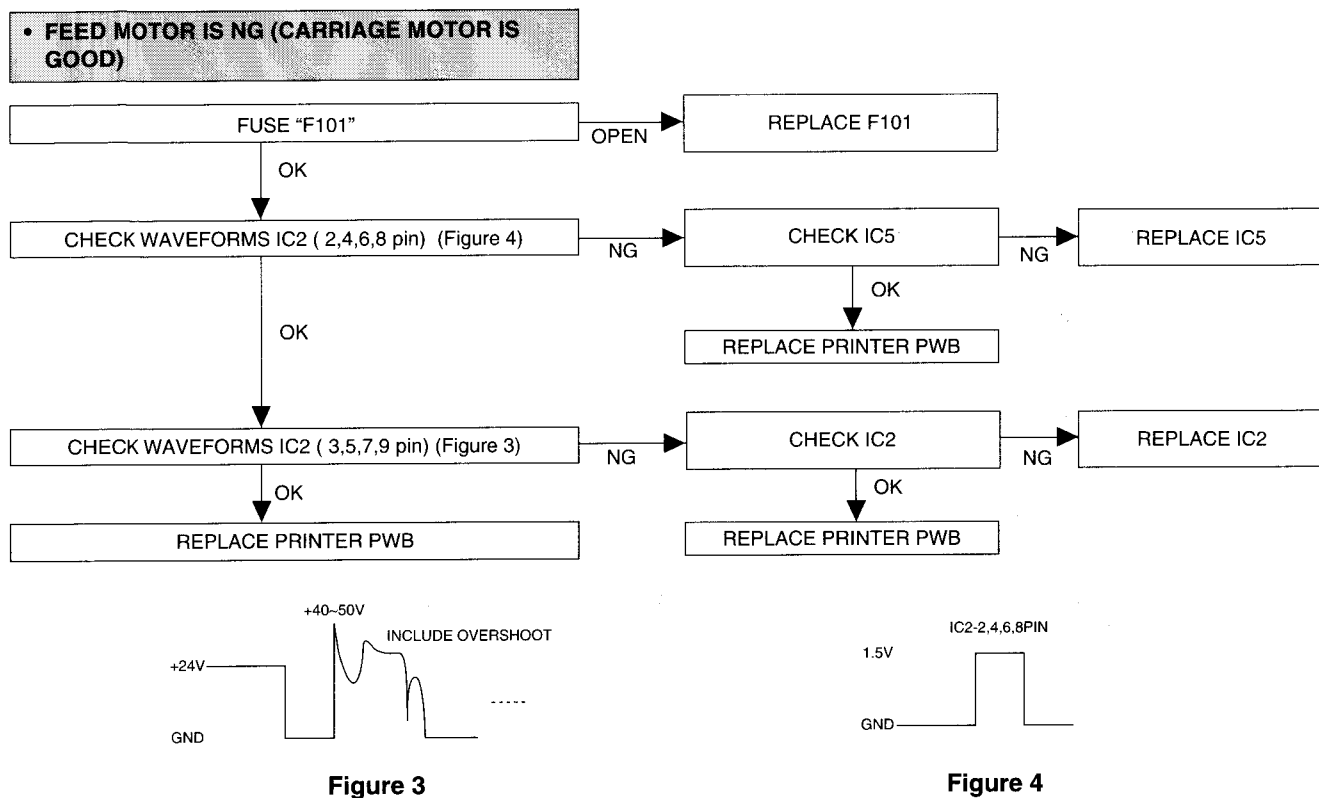
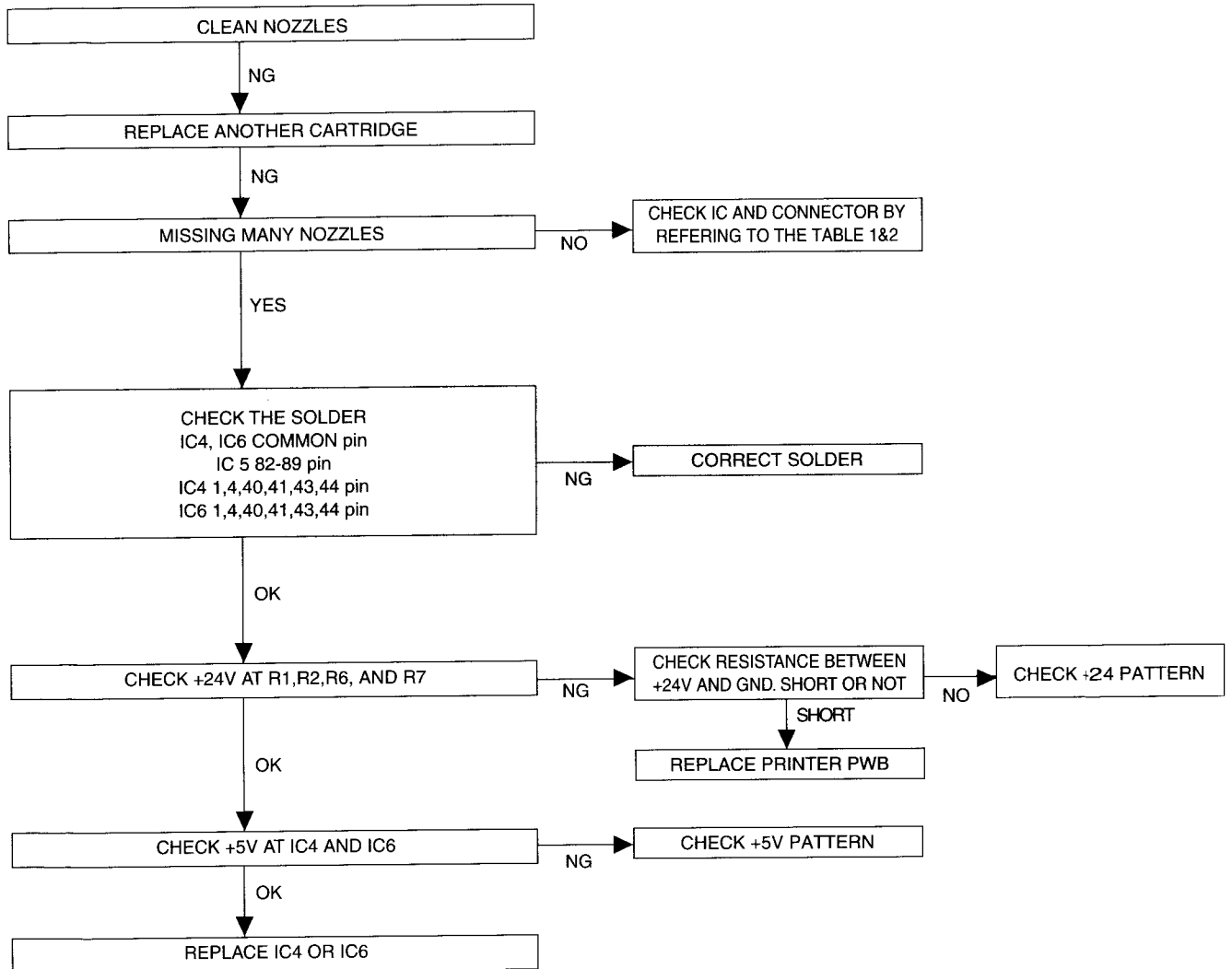


Figure 2



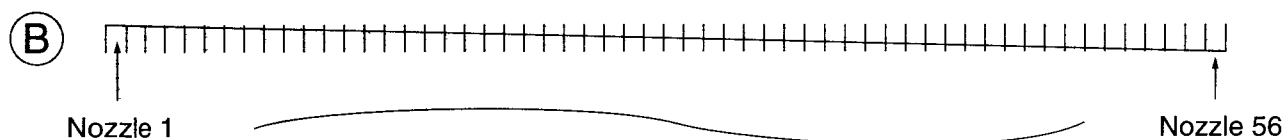
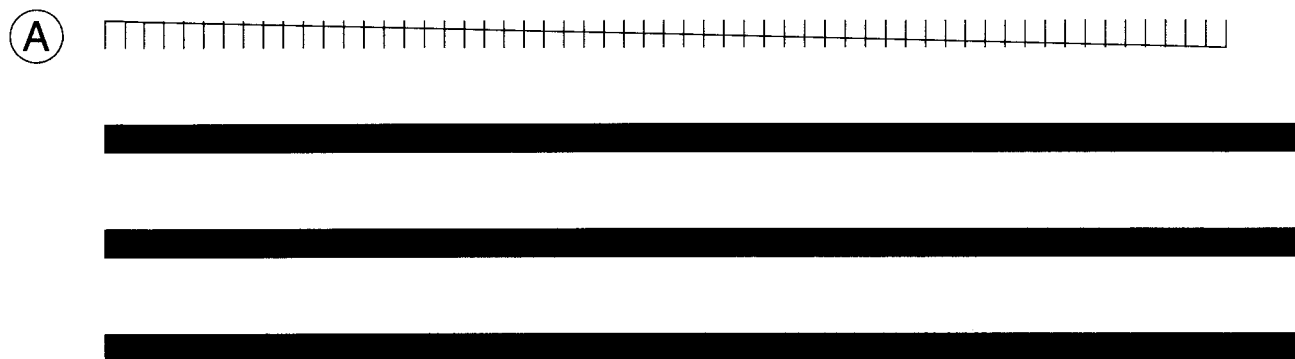
UX-2700CMIT
FO-2550CMIT

• MISSING NOZZLES (RESULT OF CHECK PATTERN
OR CLEAN NOZZLES



[6]How to decide the number of the wrong nozzle

FUNC + (6) + (X) + (X) "CLEAN NOZZLES"



Horizontal lines on (A) and (B) correspond to nozzle #1,#2...#56 from left side to right side.
If there are missing horizontal lines, you can decide the number of wrong nozzle from pattern (A) or (B).

Note) Don't use the check pattern to decide the number of wrong nozzle.

UX-2700CMIT
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TABLE 1.

(Nozzle# IC-PIN CONNECTOR-PIN)

Nozzle#	IC	PIN	CN	PIN	Nozzle#	IC	PIN	CN	PIN
1	6	39	3	9	29	6	10	3	20
2	4	39	4	28	30	4	10	4	17
3	6	35	3	10	31	6	14	3	21
4	4	35	4	27	32	4	14	4	16
5	6	31	3	11	33	6	22	3	30
6	4	31	4	26	34	4	22	4	7
7	6	25	3	12	35	6	9	3	22
8	4	25	4	25	36	4	9	4	15
9	6	36	3	13	37	6	13	3	23
10	4	36	4	24	38	4	13	4	14
11	6	32	3	14	39	6	21	3	29
12	4	32	4	23	40	4	21	4	8
13	6	26	3	15	41	6	8	3	24
14	4	26	4	22	42	4	8	4	13
15	6	37	3	7	43	6	12	3	25
16	4	37	4	30	44	4	12	4	12
17	6	33	3	16	45	6	20	3	28
18	4	33	4	21	46	4	20	4	9
19	6	27	3	17	47	6	6	3	26
20	4	27	4	20	48	4	6	4	11
21	6	38	3	6	49	6	11	3	27
22	4	38	4	31	50	4	11	4	10
23	6	34	3	18	51	6	15	3	31
24	4	34	4	19	52	4	15	4	6
25	6	30	3	19	53	6	23	3	32
26	4	30	4	18	54	4	23	4	5
27	6	24	3	5	55	6	7	4	1
28	4	24	4	32	56	4	7	4	4

TABLE 2.

(Nozzle Common CN)

Nozzle#	PIN	CN	PIN
1,3,5,7,9,11,13,15, 17,19,21,23,25,27	1	3	8
2,4,6,8,10,12,14,16, 18,20,22,24,26,28	2	4	29
29,31,33,35,37,39,41, 43,45,47,49,51,53,55	3	4	2
30,32,34,36,38,40,42, 44,46,48,50,52,54,56	4	4	3

[7] Waveforms

FEED MOTOR WAVEFORMS WHEN FEEDING PAPER

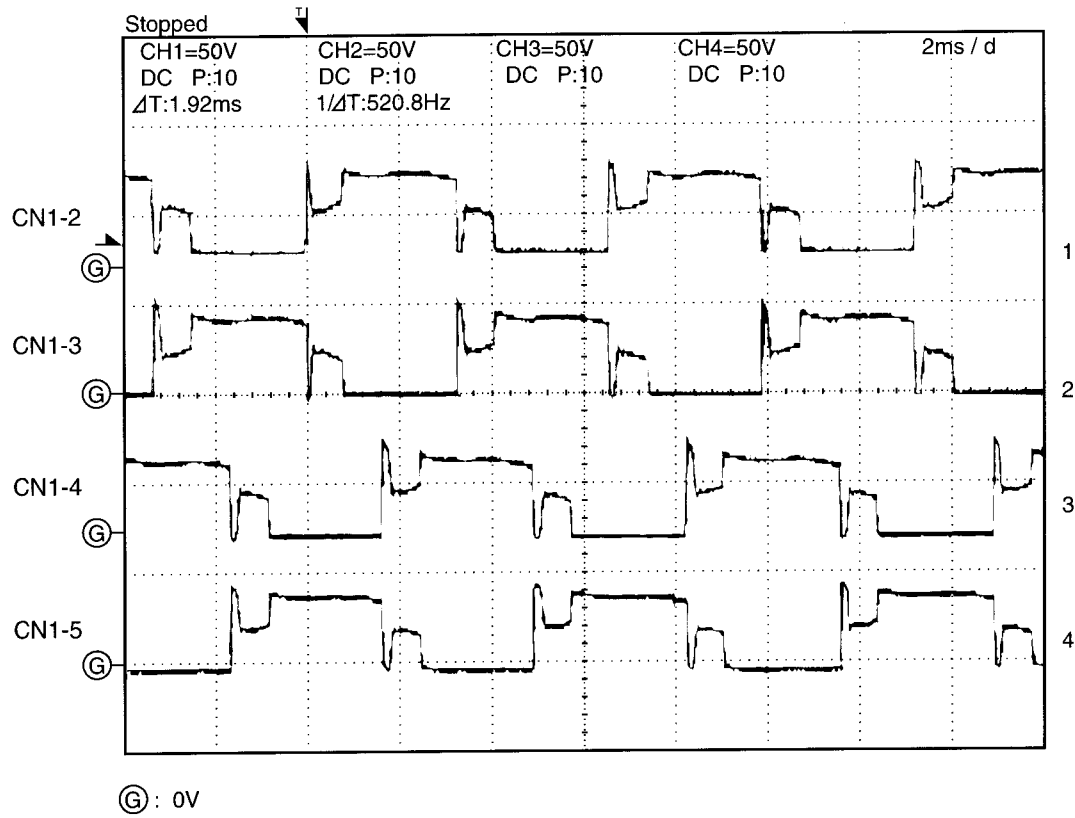
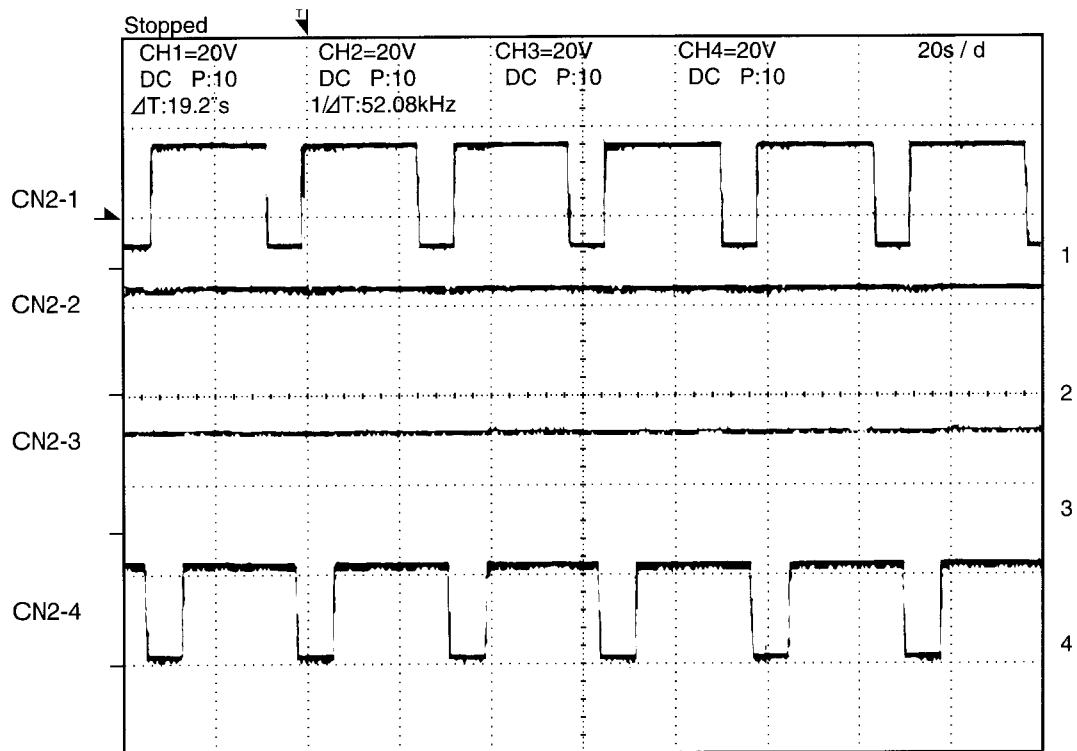


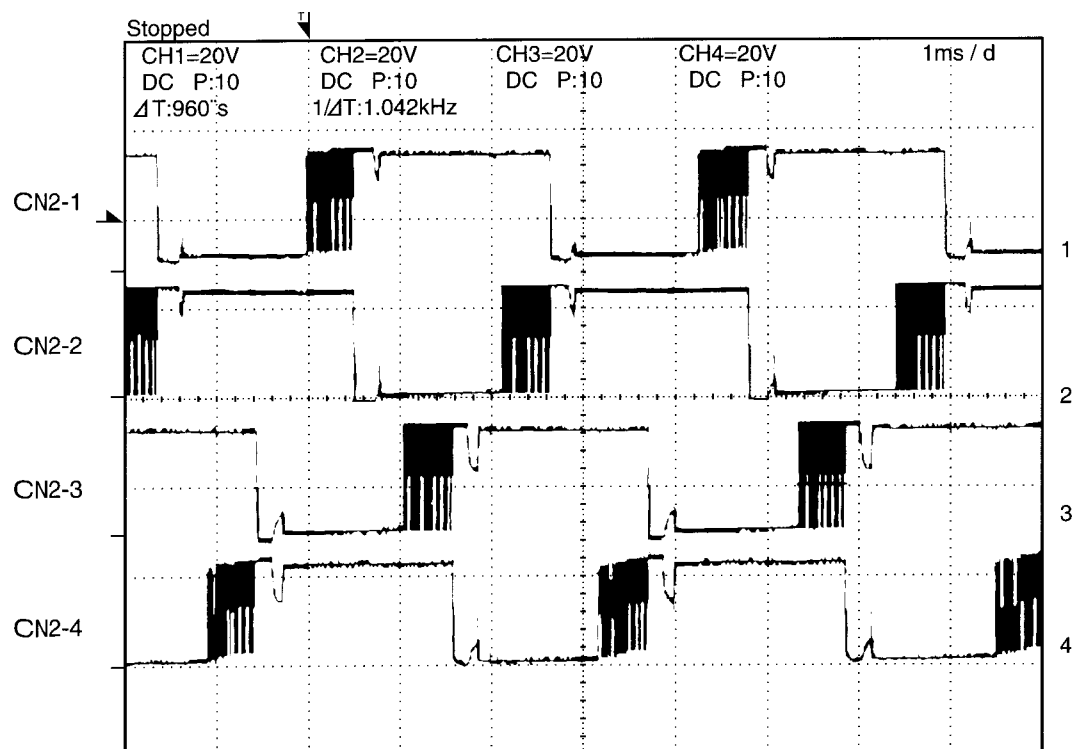
Figure 1

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CARRIAGE MOTOR WAVEFORMS



When the cartridge holder is at the position of replacing cartridge.

Figure 2



Measured for printing check pattern

Figure 3

CARRIAGE MOTOR WAVEFORMS MEASURED FOR CHECKING OUT OF INK

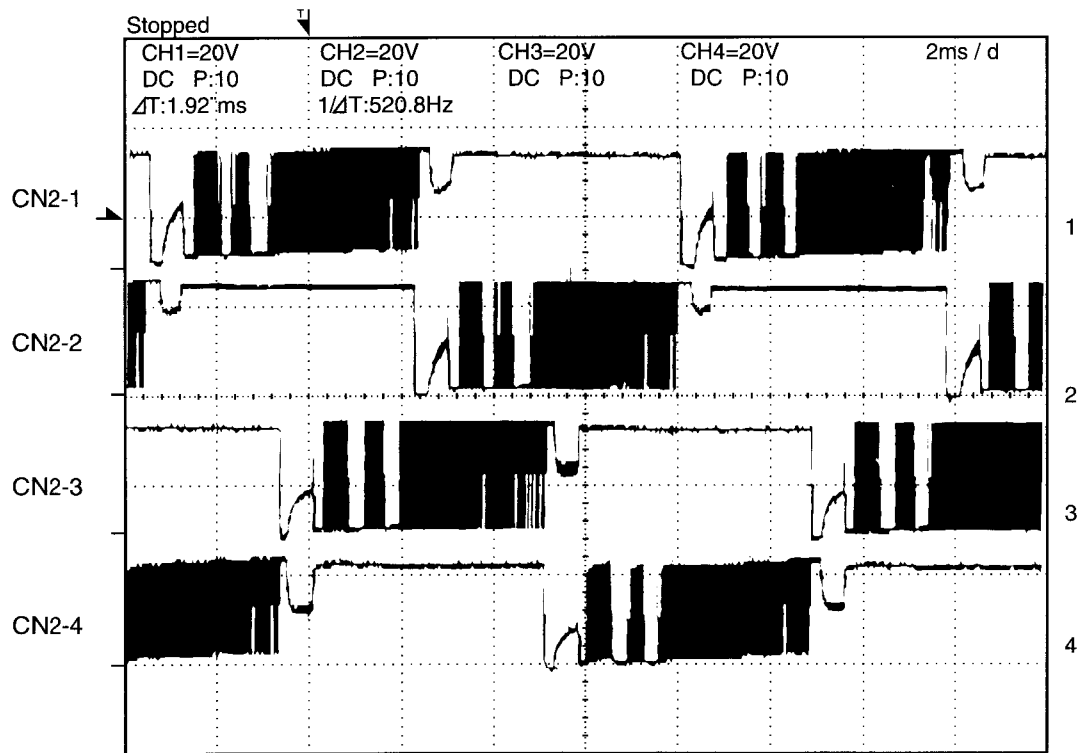


Figure 4

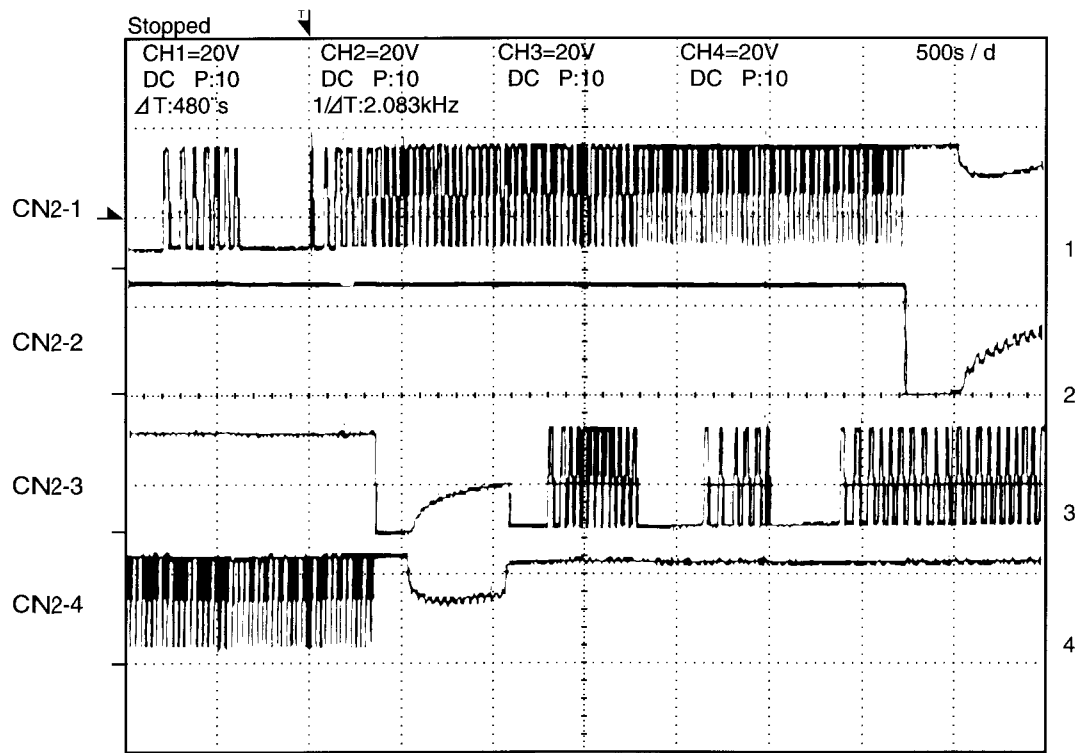


Figure 5

[8] Service checks

1. Carrier Transport Service Check

	FRU	Action
1	System Board	Check the motor for binds, or loose motor pulley. Turn the printer off and disconnect CN2 from the system board. Check for motor pins shorted to the motor housing. If you find a pin shorted to the housing, replace the motor. If the failure remains, replace the system board.
2	Carrier Transport Motor	A noisy or chattering motor or a motor that fails to turn can be caused by: • An open or short in the motor. • An open or short in the motor driver on the system board. • A bind in the carrier transport mechanism. With the carrier transport motor cable disconnected from the system board, check for zero to ten (0-10) ohms between the following pins on the motor: CN2-1 and CN2-2 CN2-3 and CN2-4 If the readings are incorrect, replace the motor.
3	Carrier Guide Rod	Clean the carrier rod. Note: Lubricate the carrier guide rod and the carrier rod bearing surface with grease.
4	Carrier Transport Belt Idler Pulley Parts Carrier Frame	Check for worn, loose or broken parts. Check for obstructions blocking carrier movement. Carrier to carrier frame engagement should be lubricated with grease.
5	Home Position Sensor	Be sure the carrier returns to the home position after turning the printer on. If the carrier moves half way, or if there is an abnormal sound, turn the printer off and disconnect CN3 from the system board. Turn the printer on and check for 5V dc between CN3-4 and CN3-2 on the system board. If the voltage is present, replace the home position sensor. If the voltage is not present, replace the system board.
6	Maintenance Station	A problem with the maintenance station can cause carrier movement problems at the right margin. Go to the 'Maintenance Station Service Check' on page 9-16.

2. Envelope Feed Service Check

	FRU	Action
1	Envelope Guide	Be sure the envelope guide has been turned to the envelope load position. Be sure the envelope guide is against the envelopes. Perform the 'Paper Feed Service Check' on page 9-17.

3. Maintenance Station Service Check

The maintenance station has two functions:

- Cleans the printhead nozzles during the print operation.
- Seals the printhead when it is not being used to prevent the nozzles from drying.

	FRU	Action
1	Maintenance Station Assembly	As the carrier moves to the right over the maintenance station, a slot on the bottom of the carrier engages a tab on the sled of the maintenance station causing the cap to rise and seal the printhead. Carrier movement to the left uncaps the printhead. The wiper cleans the printhead nozzles as the carrier leaves the maintenance station. The wiper cleans the printhead only when the carrier is moving to the left. There should be no wiping action of the printhead nozzles when the carrier is moving to the right. After the cleaning operation is complete, a tab on the maintenance station engages a tab on the carrier, causing the wiper to lower. Check the maintenance station for worn or broken parts.
2	Wiper	A worn wiper causes degraded print quality just after a maintenance cleaning. Check for a loose or worn wiper.
3	Cap	A worn cap causes the printhead nozzles to dry and clog. Check for a loose or worn cap.

4. Paper Feed Service Check

If your machine does not have paper jam problems, continue with the service check. If your machine does have a paper jam problem, examine it for the following before you begin the service check:

- Check the entire paper path for obstructions.
- Be sure there is not too much paper in the sheet feeder.
- Be sure the correct type of paper is being used.
- Check for static in the paper.

	FRU	Action
1	System Board	Turn the printer on and verify the paper feed motor activates. Be sure the end-of-form sensor lever is in the down position. Turn the printer off and disconnect CN1 from the system board. Check for motor pins shorted to the motor housing. If you find a shorted pin, replace the paper feed motor. If you still have a failure after replacing the paper feed motor, replace the system board.
2	Paper Feed Motor	A noisy or chattering motor or a motor that fails to turn, can be caused by an open or short in the motor, an open or short in the motor driver on the system board, or a bind in the paper feed mechanism. With the paper feed motor cable CN1 disconnected from the system board, check for 140 ohms($\pm 7\%$) between the following pins on the motor : Pin 1 to Pin 2, Pin 1 to Pin 4 280 ohms($\pm 7\%$) between pins 2 and 4. If the readings are incorrect, replace the paper feed motor and drive train assembly. Although the paper feeds in a forward direction only, the paper feed motor turns in two directions. If the paper feed motor turns in one direction only, replace the system board. Binds in the paper feed motor or gear train can cause intermittent false paper jam errors. Remove the paper feed motor and check the shaft for binds. Also check for loose or worn motor gear.
3	Drive Train Assembly	Check for binds in the gear train and paper feed mechanism by removing the paper feed motor and rotating the large gear by hand. If you notice a bind, replace the drive train assembly. Check the feed clutch gear on the left side of the auto sheet feeder. Turn the clutch gear and check that it rotates freely in one direction and locks when turned in the opposite direction.
4	Auto Sheet Feeder	Check the pick rollers for wear.
5	Mid-Frame Asm Access Cover Asm	Check the following for wear: • Exit roller • Star rollers
6	End-of-Forms Flag and Spring	Check for binds or damage. If binds are found, replace the end-of-forms flag.
7	End-of-Forms Sensor	Check the sensor for dirt. Be sure the sensor lever is in the down position. If the failure remains, replace the system board.

5. Paper Path Service Check

Examine the machine for the following before you begin this service check:

- Check the entire paper path for obstructions
- Be sure the correct type of paper is being used.
- Be sure the printer is installed on a flat surface.

	FRU	Action
1	Large and Small Feed Rollers	Check for wear and binds.
2	Small Feed Roller Springs	Check for damage.
3	Auto Sheet Feeder	Check the pick rollers for wear.
4	Mid-Frame Asm Access Cover Asm	Check the following for wear: • Exit roller • Star rollers
5	End-of-Forms Flag	Check for binds or damage.

6. Power Service Check

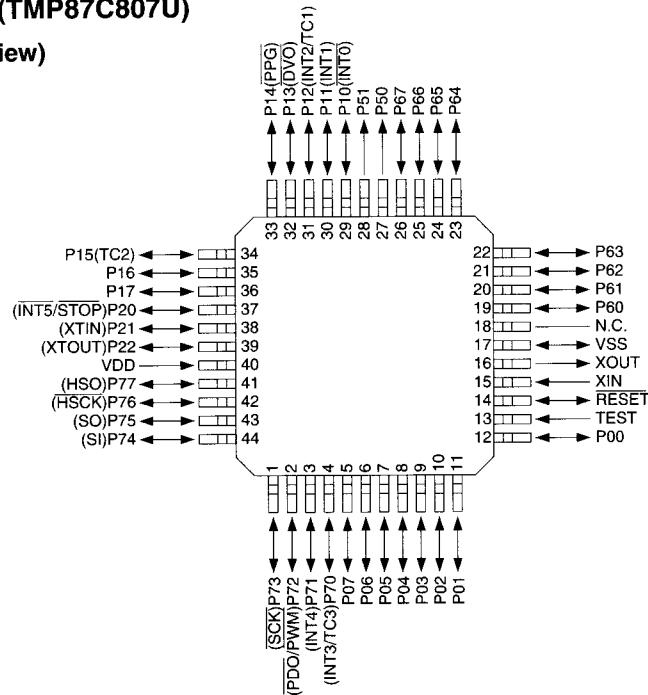
	FRU	Action
1	Power Supply	Disconnect N1 from the system board and check the following voltages on the power supply cable: • CNPRT-22 to Gnd ==+5V dc • CNPRT-26 to Gnd ==+24V dc If you do not have correct voltage,replace the power supply. Be sure to unplug the machine before you reconnect the power supply to the system board.
2	Printhead Cable Carrier Home Sensor Parallel Cable	Turn off the printer.Disconnect one of the printhead cables and turn on the printer. Look for a symptom change. Check the failing part for shorts and replace as necessary. Repeat this procedure for the carrier home sensor and parallel cable.
3	System Board	If the symptom has not changed,replace the system board.

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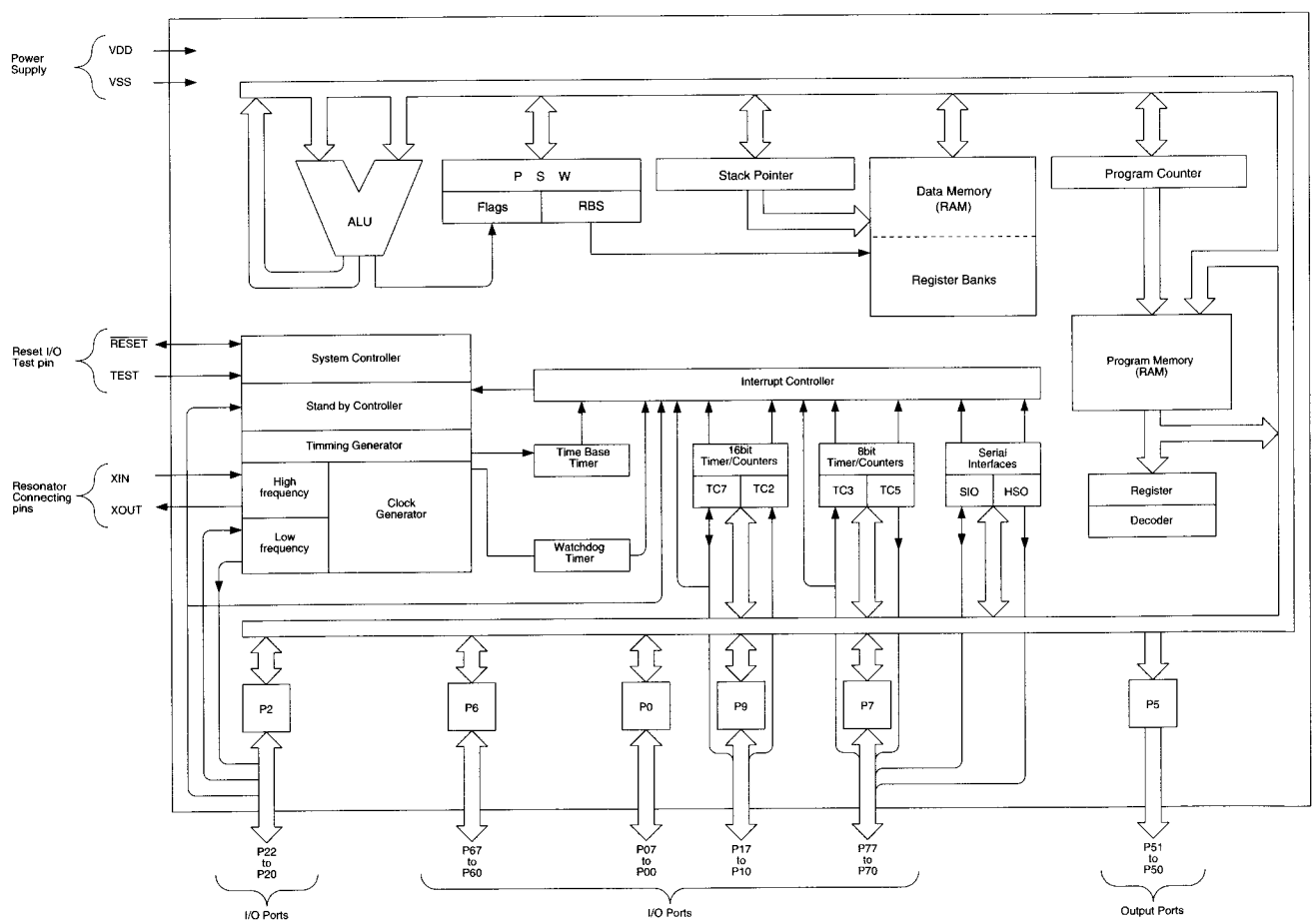
[9] IC signal name

IC 8 : VHiTMP87PH47U (TMP87C807U)

1. Pin Assignment (Top View)



2. Block Diagram



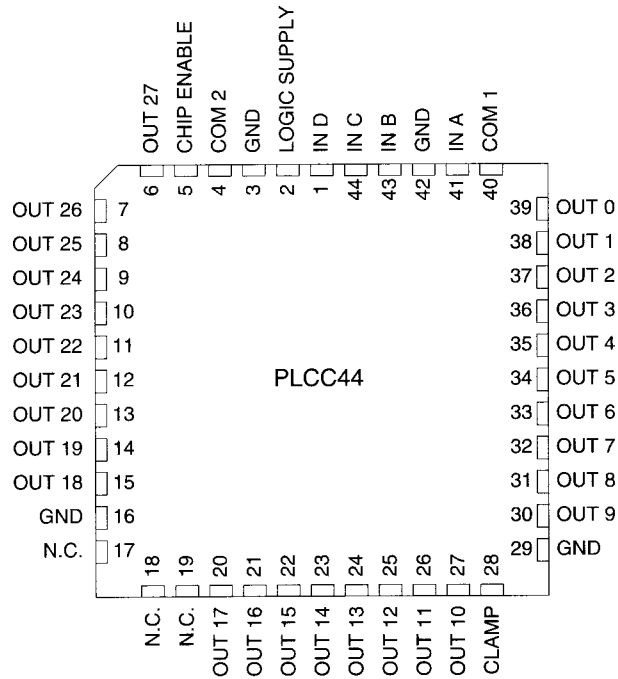
3. Pin Function

PIN Name	Input/Output	Function
P07 to P00	I/O	Two 8-bit programmable input/output ports (tri-state).
P17,P16	I/O	
P15(TC2)	I/O(Input)	Each bit of these ports can be individually configured as an input or an output under software control.
P14(PPG)	I/O(Output)	
P13(OVO)	I/O(Input)	Timer/Counter 2 input
P12(INT2/TC1)		Programmable pulse generator output
P11(INT1)		Divider output
P10(INT0)		External interrupt input 2 or Timer/Counter 1 input
P22(XTOUT)	I/O(Output)	3-bit input/output port with latch.
P21(XTIN)	I/O(Input)	
P20(INT5/STOP)		When used as an input port, the latch must be set to "1".
P51,P50	Output	2-bit output port with latch.
P67 to P60	I/O(Output)	8-bit programmable input/output port (tri-state). Each bit of the port can be individually configured as an input or an output under software control.
P77(HSO)	I/O(Output)	8-bit programmable input/output port (tri-state).
P76(HSCK)		
P75(SO)		
P74(SI)		
P73(SCK)	I/O(I/O)	When used as an input port, a SIO input/output on external interrupt input or a PWM/PDO output, the latch must be set to "1".
P72(PWM/PDO)	I/O(Output)	
P71(INT4)	I/O(Input)	SIO serial data output
P70(INT3/TC3)		SIO serial clock output
		SIO serial data input
		SIO serial clock input/output
		8-bit PWM output or 8-bit programmable divider output
		External interrupt input 4
		External interrupt input 3 or Timer/Counter 3 input
XIN/XOUT	Input,Output	Resonator connecting pins for high-frequency clock. For inputting external clock. XIN is used and XOUT is opened.
RESET	I/O	Reset signal input or watchdog timer output/address-trap-reset output/system-clock-reset output.
TEST	Input	Test pin for out-going test. Be tied to low.
VDD,VSS	Power Supply	+5V,0V(GND)
N.C.		Be tied to low.

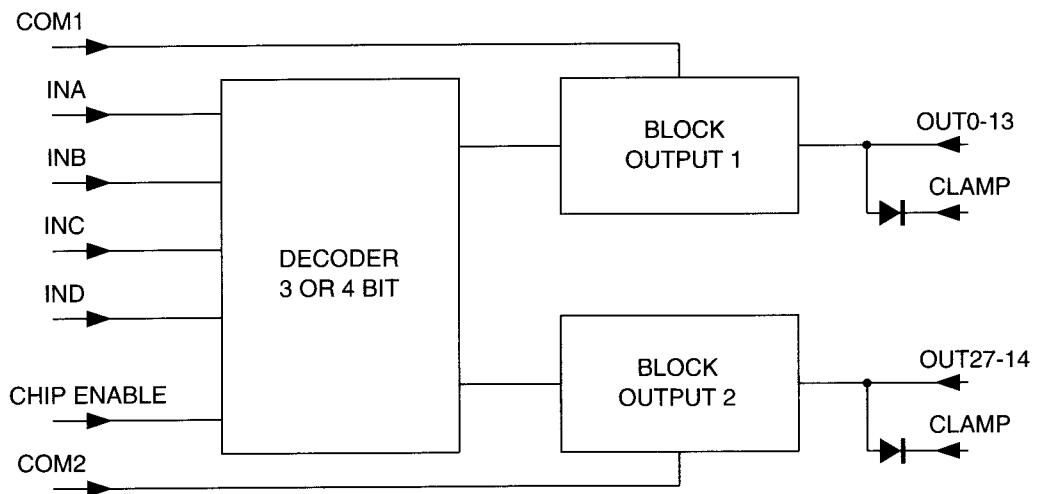
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IC 4 , 6 : VHil6451///-1 (L6451)

1. Pin Connection (Top View)



2. Block Diagram (case of 4 bit)



3. Description

The L6451 is realized in Multipower BCD Technology which combines isolated DMOS power transistors with CMOS and Bipolar circuits on the same IC. By using mixed technology it has been possible to optimize the logic circuitry and the power stage to achieve the best possible performances.

Intended to be used in ink jet Printer Applications as 4 to 28 (2x14) lines selectable decoder/driver, the L6451 device driver has the advantages of low power CMOS input and logic, with 28 high current and high voltage DMOS outputs capable of sustaining a maximum of 40V.

On system power up the output drivers are locked out using the chip enable function : two enable inputs are available for the different driver banks.

An internal power-on system is implemented in order to avoid wrong output commutation during the supply voltage transients.

Using a mask option during manufacturing allows a different decoding.

Control of the energy delivered to the print head is made by means of a special circuitry.

All driver outputs are capable of withstanding a contact discharge of $\pm 8\text{kV}$ with the IC biased.

4. Absolute Maximum Ratings

Symbol	Parameter	Value	Unit
VOUT	Output voltage	40	V
VCLAMP	Output Clamping Voltage	40	V
IOUT	Output Continuous Current	0.8	A
IPEAK	Output Peak Current (with duty cycle = 10% TON = 4 μs)	2	A
TJ	Junction Temperature	150	°C
VDD	Logic Supply Voltage	7	V
VIN	Input Voltage Range	-0.3V to Vs +0.3	V
TAMB	Operating Temperature Range	0 to 70	°C
TSTG	Storage Temperature Range	-55 to 150	°C

5. Pin Functions

Name	Function
VDD	5V Logic Supply.
GND	Logic and Power Ground.
OUT0 to OUT27	DMOS Output.
CLAMP	This pin has to be connected to the power supply voltage of the head resistors. Each of the output DMOS have their drain connected with the anode of a protection diode, all the cathodes of the protection diodes are connected to the clamp pin. In order to have the device supplied, the CLAMP pin needs to be connected to the power.
INA, INB, INC, IND	Decoder inputs.
COM1, COM2	A low logic input on these pins enables the outputs selected by the decoder inputs.
CHIP ENABLE	A logic high enable the chip.

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M E M O

SHARP PARTS GUIDE

MODEL UX-2700CM FO-2550CM

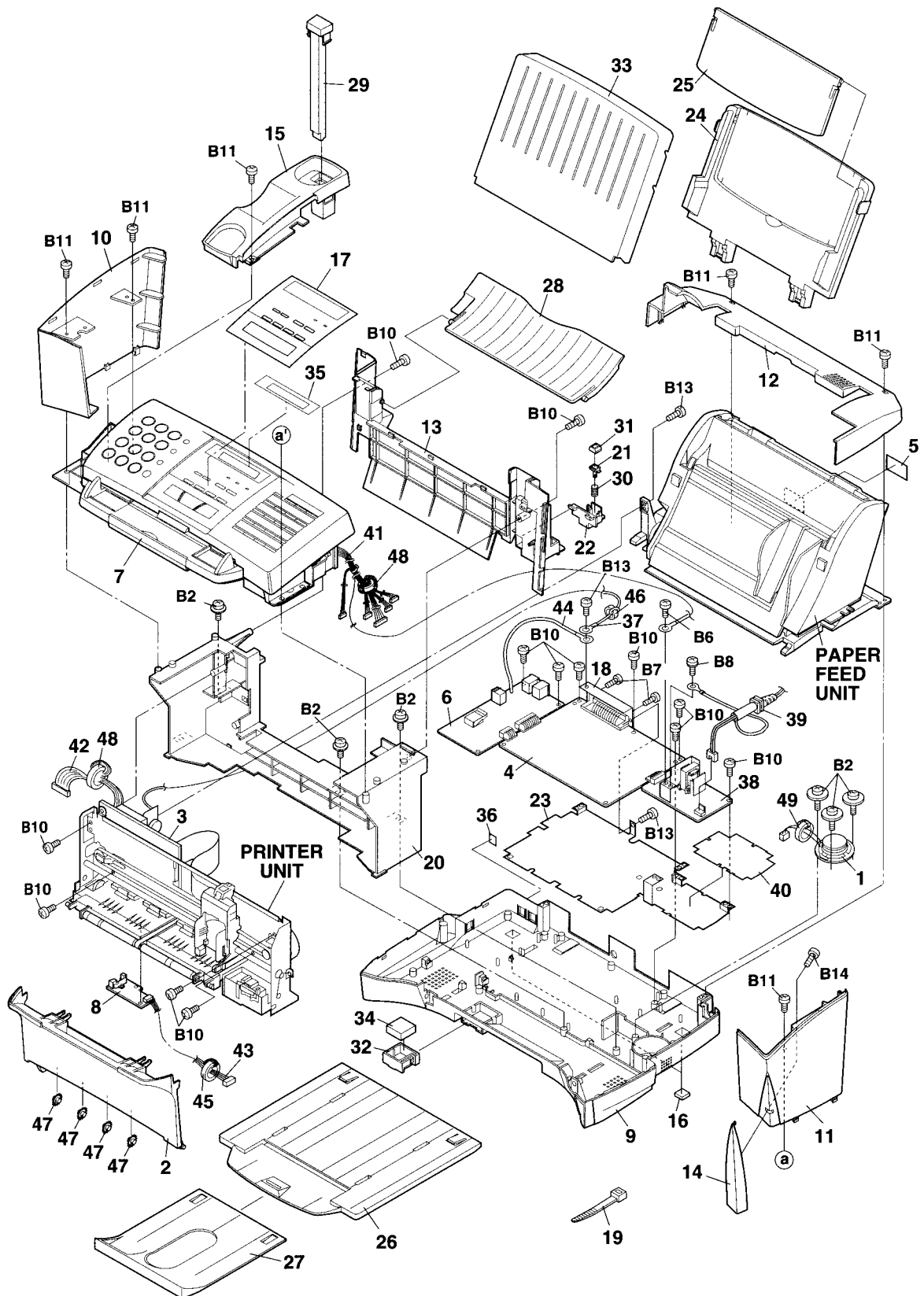
CONTENTS

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| 2 Upper cabinet | 10 Control PWB unit |
| 3 Panel cabinet | 11 TEL-Liu PWB unit |
| 4 Document guide upper | 12 Ink sensor PWB unit |
| 5 Paper feed unit | 13 Printer PWB unit |
| 6 Scanner unit | 14 Operation panel PWB unit |
| 7 Drive unit | 15 Power supply PWB unit |
| 8 Printer unit | ■ Index |

Because parts marked with "△" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

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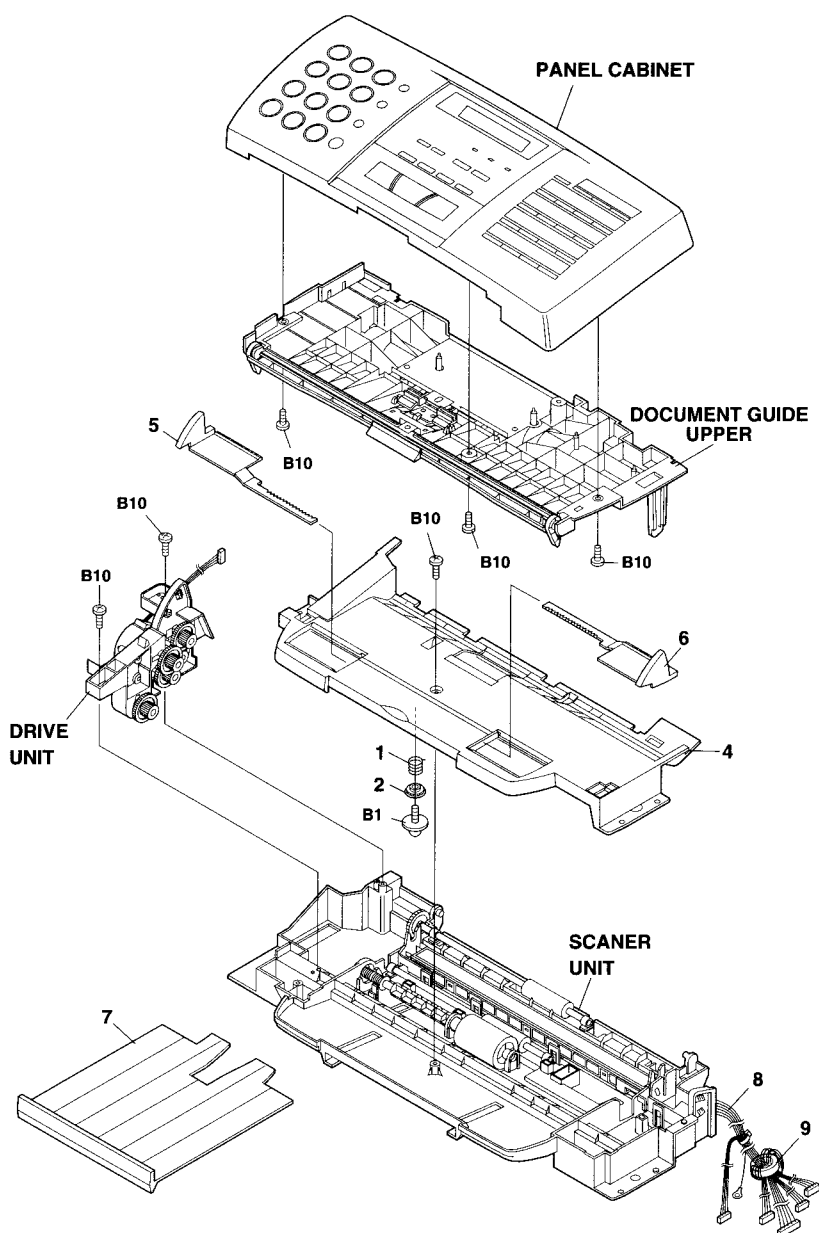
1 Cabinet, etc.



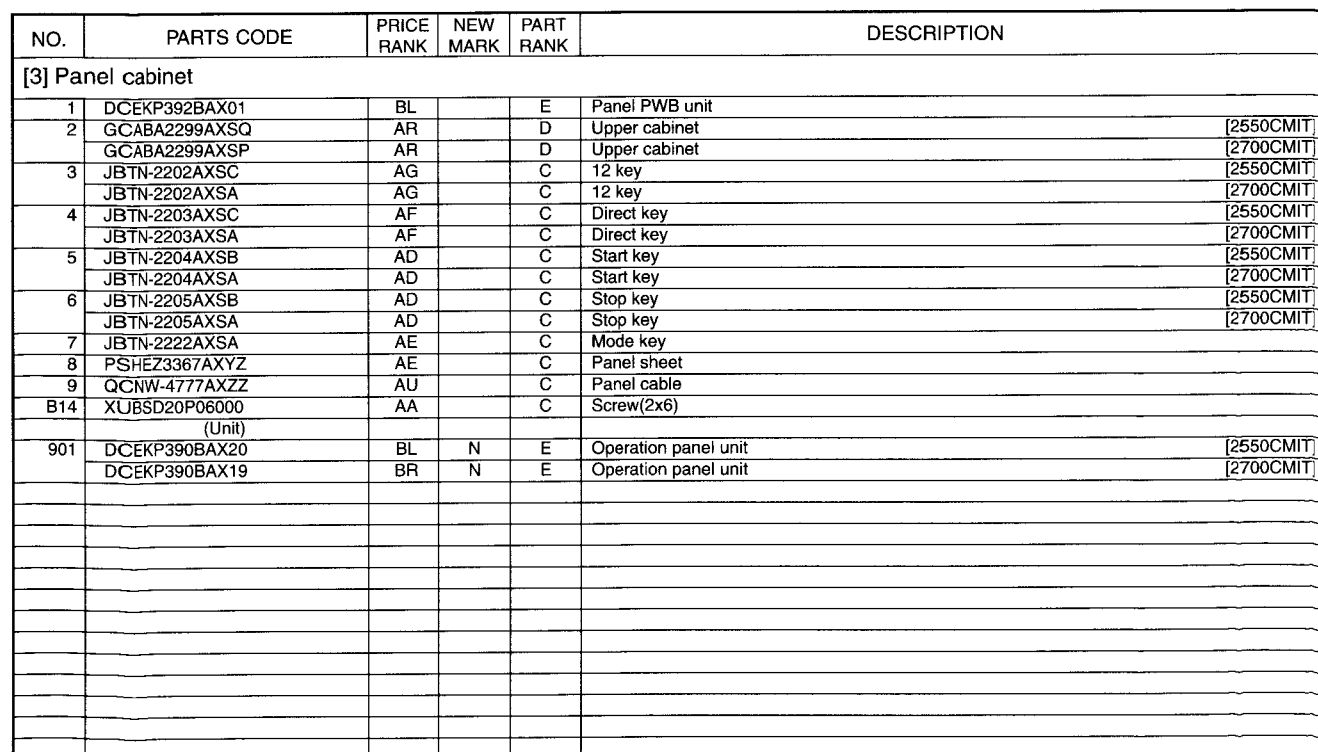
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] Cabinet,etc.					
1	CCNW-4772AX01	AL		C	Speaker ass'y
2	GCOVA2381AXSC	BD		D	Front cover
	GCOVA2381AXSA	BD		D	Front cover
3	DCEKC436BAX01	BV		E	Printer PWB unit
4	CPWBX3021AX05	CL	N	E	Control PWB unit(Without ROM)
5	TLABS4885AXZZ	AB	N	D	IT label
	TLABS4884AXZZ	AB	N	D	IT label
6	DCEKL437BAX03	CA	N	E	TEL/Liu PWB unit
7	DCEKP390BAX20	BL	N	E	Operation panel unit
	DCEKP390BAX19	BR	N	E	Operation panel unit
8	DCEKS396BAX01	AZ		E	Ink sensor PWB
9	GCABC2301AXSD	AZ		D	Bottom cabinet
	GCABC2301AXSF	AZ		D	Bottom cabinet
10	GCABD2302AXSC	AM		D	Left cabinet
	GCABD2302AXSA	AM		D	Left cabinet
11	GCABE2303AXSC	AL		D	Right cabinet
	GCABE2303AXSA	AL		D	Right cabinet
12	GCABF2304AXSC	AP		D	Rear cabinet
	GCABF2304AXSA	AP		D	Rear cabinet
13	GCABG2305AXSC	AR		D	Printer back cabinet
	GCABG2305AXSA	AS		D	Printer back cabinet
14	GCOVA2382AXSB	AH		C	IRDA cover
	GCOVA2382AXSC	AE		C	IRDA cover
15	GDAI-2079AXSC	AN		C	Handset holder
	GDAI-2079AXSA	AL		C	Handset holder
16	GLEG2063AXZZ	AC		C	Rubber leg
17	HPNLH2385AXSM	AR		D	Decoration panel
18	LANGF2812AXZZ	AG		C	232C Bracket
19	LBNDJ2008SCZZ	AA		C	Band(GT-100M)
20	LFRM-2190AXZZ	AX		C	Frame
21	LHLDZ2166AXZZ	AD		C	Cap holder
22	LHLDZ2171AXSC	AE		C	Back cabinet piece
	LHLDZ2171AXSA	AE		C	Back cabinet piece
23	LPLTM2923AXZA	AM		C	Shield plate
24	LPLTP2889AXSC	AK		C	Paper tray A
	LPLTP2889AXSD	AN		C	Paper tray A
25	LPLTP2890AXSC	AZ		C	Paper tray B
	LPLTP2890AXSD	AG		C	Paper tray B
26	LPLTP2925AXSC	AQ		C	Paper out tray
	LPLTP2925AXSA	AQ		C	Paper out tray
27	LPLTP2926AXSC	AM		C	Extension paper out tray
	LPLTP2926AXSA	AM		C	Extension paper out tray
28	LPLTP2932AXSA	AK		C	Document tray
29	MLEVP2278AXSA	AF		C	Hook switch lever
30	MSPRC2973AXZZ	AC		C	Cap spring
31	PCAPH2021AXZZ	AD		C	Cap gum
32	PCASZ2034AXSC	AE		C	OOI-Case
	PCASZ2034AXSA	AE		C	OOI-Case
33	PCOVA2115AXSA	AL		C	Paper cover
34	PFLT-2015AXZZ	AG		C	Felt
35	PSHEZ3345AXYE	AG	N	C	LCD sheet
36	PSHEZ3356AXYZ	AC		C	Jack sheet
37	QCNW-4807AXZZ	AE		C	Ground cable
38	RDENT2131AXZZ	BN		E	Power supply PWB unit
39	QACCV662AXHZZ	AZ		B	AC cord ass'y
40	PSHEZ3381AXZZ	AE		C	Insulation sheet
41	QCNW-4777AXZZ	AU		C	Panel cable
42	QCNW-4778AXZZ	AZ		C	Printer cable
43	QCNW-4775AXZZ	AH		C	Ink out cable
44	QCNW-4806AXZZ	AD		C	ARG cable
45	RCORF2063XHZZ	AF		B	Core
46	RCORF2096FFZZ	AD		B	Core
47	NROLM2389AXZZ	AD		C	Star roller
48	RCORF2064XHZZ	AF		B	Core
49	RCORF2103XHZZ	AF		B	Core
B2	LX-B2222AXZZ	AC		C	Screw(3x6)
B6	XBPSD30P06K00	AA		C	Screw(3x6)
B7	XBPSD30P06K00	AA		C	Screw(3x6)
B8	XBPSN40P06K00	AA		C	Screw(4x6)
B10	XEBSD30P10000	AA		C	Screw(3x10)
B11	XEBSE30P12000	AA		C	Screw(3x12)
B13	XHBSE30P06000	AA		C	Screw(3x6)
B14	XUBSD20P06000	AA		C	Screw(2x6)

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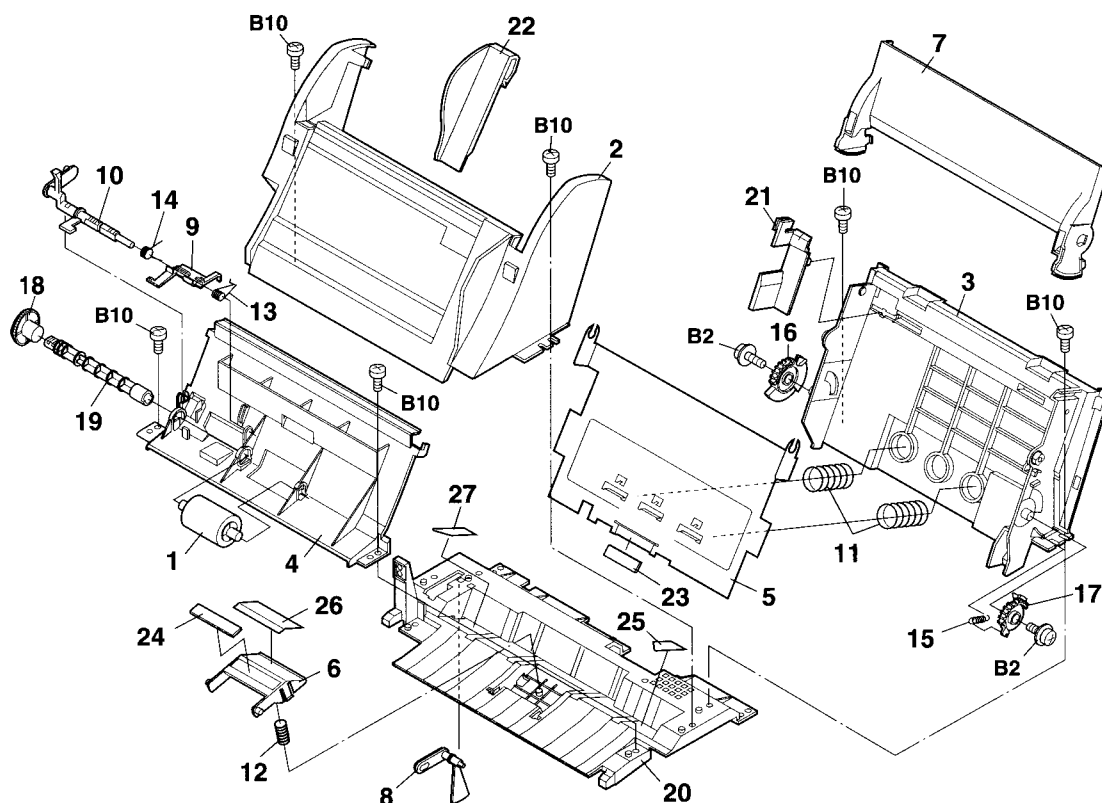
[2] Upper cabinet



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[2] Upper cabinet					
1	MSPRC2832AXZZ	AC		C	Hopper spring
2	NGERP2318XHZZ	AD		C	Pinion gear
4	PGIDM2509AXSC	AR		C	Lower document guide
	PGIDM2509AXSA	AR		C	Lower document guide
5	PGIDM2510AXSC	AE		C	Hopper guide, left
	PGIDM2510AXSA	AE		C	Hopper guide, left
6	PGIDM2511AXSC	AE		C	Hopper guide, right
	PGIDM2511AXSA	AE		C	Hopper guide, right
7	PHOP-2097AXSC	AK		C	Extension hopper
	PHOP-2097AXSA	AK		C	Extension hopper
8	QCNW-4777AXZZ	AU		C	Panel cable
9	RCORF2064XHZZ	AF		B	Core
B1	LX-BZ2138XHZZ	AB		C	Screw(2x6)
B10	XEBSD30P10000	AA		C	Screw(3x10)



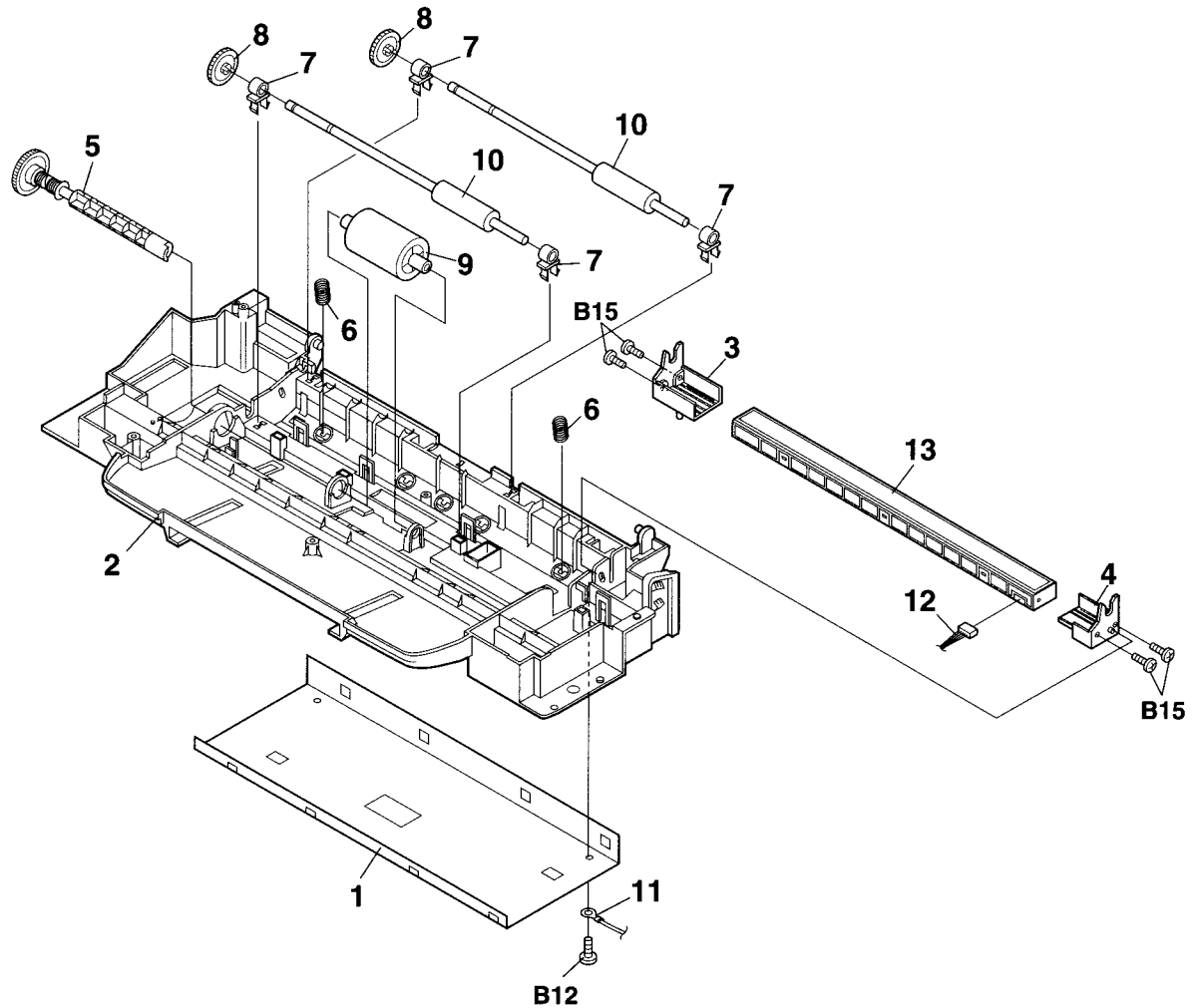
5 Paper feed unit



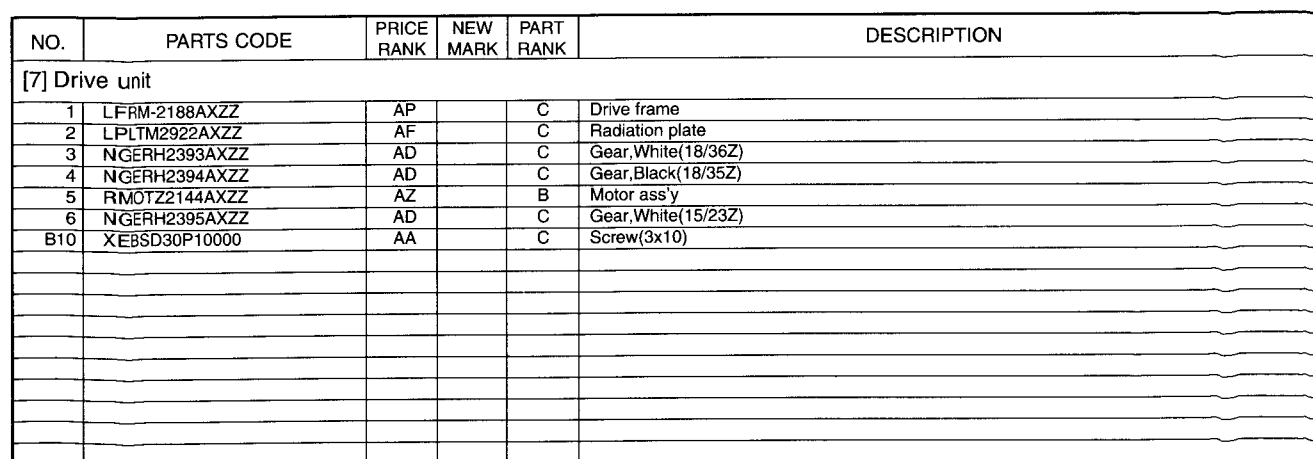
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[5] Paper feed unit					
1	CR0LR2362AX01	AN		C	PU roller ass'y
2	GCABB2300AXSC	AQ		D	Paper feed cabinet [2550CMIT]
	GCABB2300AXSA	AQ		D	Paper feed cabinet [2700CMIT]
3	LFRM-2189AXSC	AR		C	Paper feed frame [2550CMIT]
	LFRM-2189AXSA	AR		C	Paper feed frame [2700CMIT]
4	LHLDZ2165AXZZ	AN		C	Paper feed roller holder
5	LPLTM2924AXZZ	AQ		C	Paper up plate
6	LPLTP2884AXZZ	AP		C	Separate plate
7	LPLTP2888AXSC	AP		C	RP release plate [2550CMIT]
	LPLTP2888AXSG	AL		C	RP release plate [2700CMIT]
8	MLEVP2275AXZZ	AE		C	PE sensor lever 3
9	MLEVP2276AXZZ	AE		C	PE sensor lever 1
10	MLEVP2277AXZZ	AE		C	PE sensor lever 2
11	MSPRC3007AXZZ	AC		C	Cassette spring
12	MSPRC2995AXFJ	AC		C	Separate plate spring
13	MSPRD2998AXZZ	AC		C	Sensor lever spring 1
14	MSPRD3004AXZZ	AB		C	Sensor lever spring 2
15	MSPRT2932AXFJ	AC		C	RP release spring
16	NGERH2365AXZZ	AD		C	RP release gear, left
17	NGERH2366AXZZ	AD		C	RP release gear, right
18	NGERH2401AXZZ	AF		C	Paper feed gear
19	NSFTM2268AXZZ	AE		C	Paper up roller shaft
20	PGIDM2512AXZZ	AS		C	Paper feed lower guide
21	PHOP-2098AXSC	AG		C	Paper guide hopper [2550CMIT]
	PHOP-2098AXSA	AG		C	Paper guide hopper [2700CMIT]
22	PHOP-2099AXSC	AG		C	Bypath paper guide [2550CMIT]
	PHOP-2099AXSA	AG		C	Bypath paper guide [2700CMIT]
23	PSEL-2015SCZZ	AB		C	RP pad
24	PSHEZ3293AXZZ	AH		C	Separate plate sheet
25	PSHEZ3342AXZZ	AC		C	Guide sheet, right
26	PSHEZ3344AXZZ	AD		C	Separate sheet
27	PSHEZ3357AXZZ	AC		C	Guide sheet, Left
B2	LX-8Z2222AXZZ	AC		C	Screw(3x10)
B10	XEBSD30P10000	AA		C	Screw(3x10)

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[6] Scanner unit



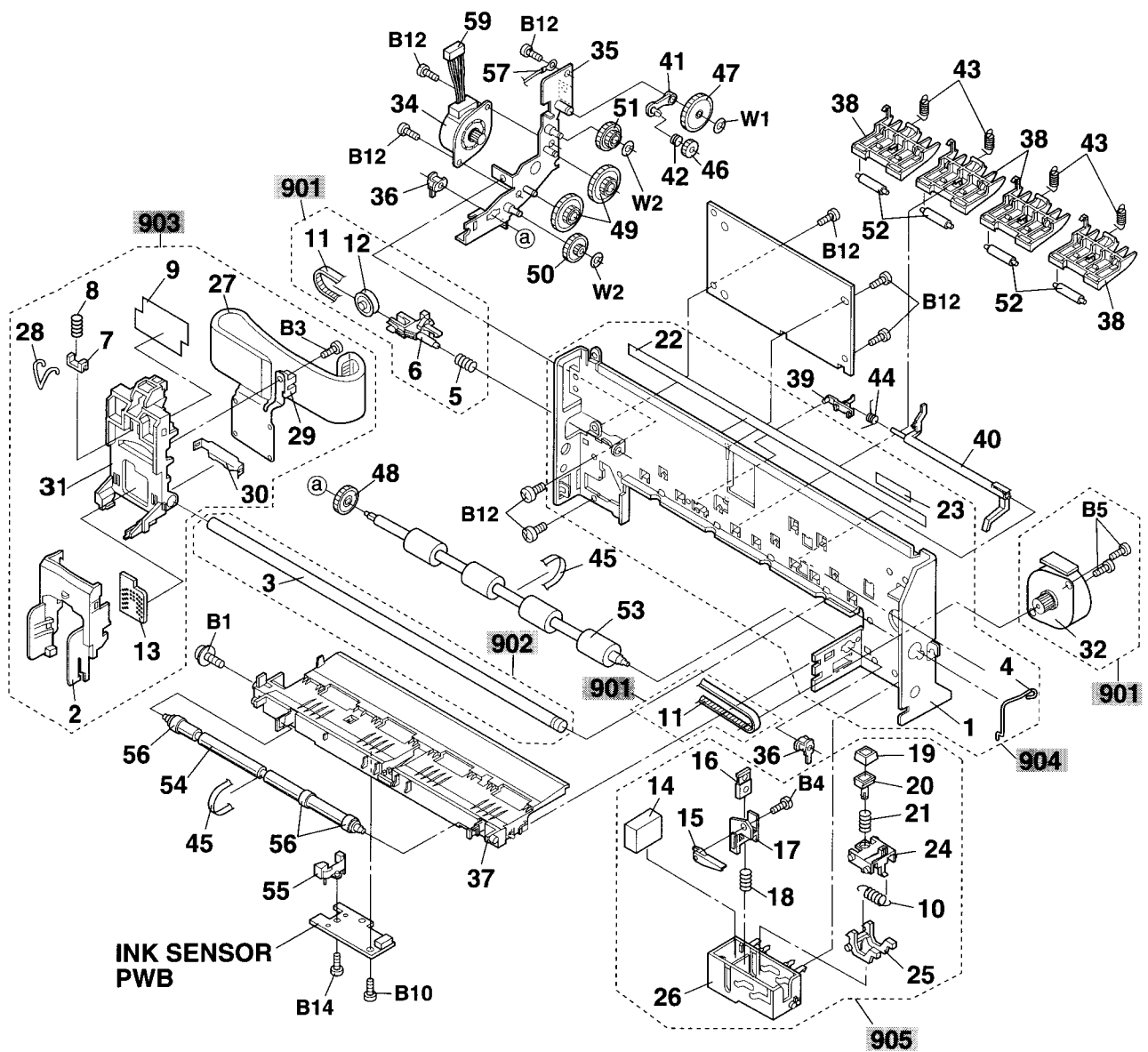
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[6] Scanner unit					
1	LPLTM2919AXZZ	AN		C	Sub base plate
2	LPLTP2918AXZZ	AW		C	Scanner base
3	LPLTP2930AXZZ	AE		C	CIS holder Left
4	LPLTP2931AXZZ	AE		C	CIS holder Right
5	CGERH2363AX01	AK		B	Feed gear ass'y
6	MSPRC2969AXZZ	AD		C	CIS spring
7	NBRGP2141AXZZ	AC		C	Transfer bearing
8	NGERH2275XHZZ	AC		C	Transfer gear 2
9	NROLR2333XHZZ	AP		C	Feed roller
10	NROLR2365AXZZ	AV		C	Transfer roller
11	QCNW-4855AXZZ	AD		C	Ground cable 2
12	QCNW-4827AXZZ	AR		C	CIS cable
13	RUNTZ2025SCZZ	BN		B	Color CIS unit ass'y
B12	XHBSD30P04000	AA		C	Screw(3x4)
B15	LX-BZ2235AXZZ	AA		C	Screw(2.6x6)



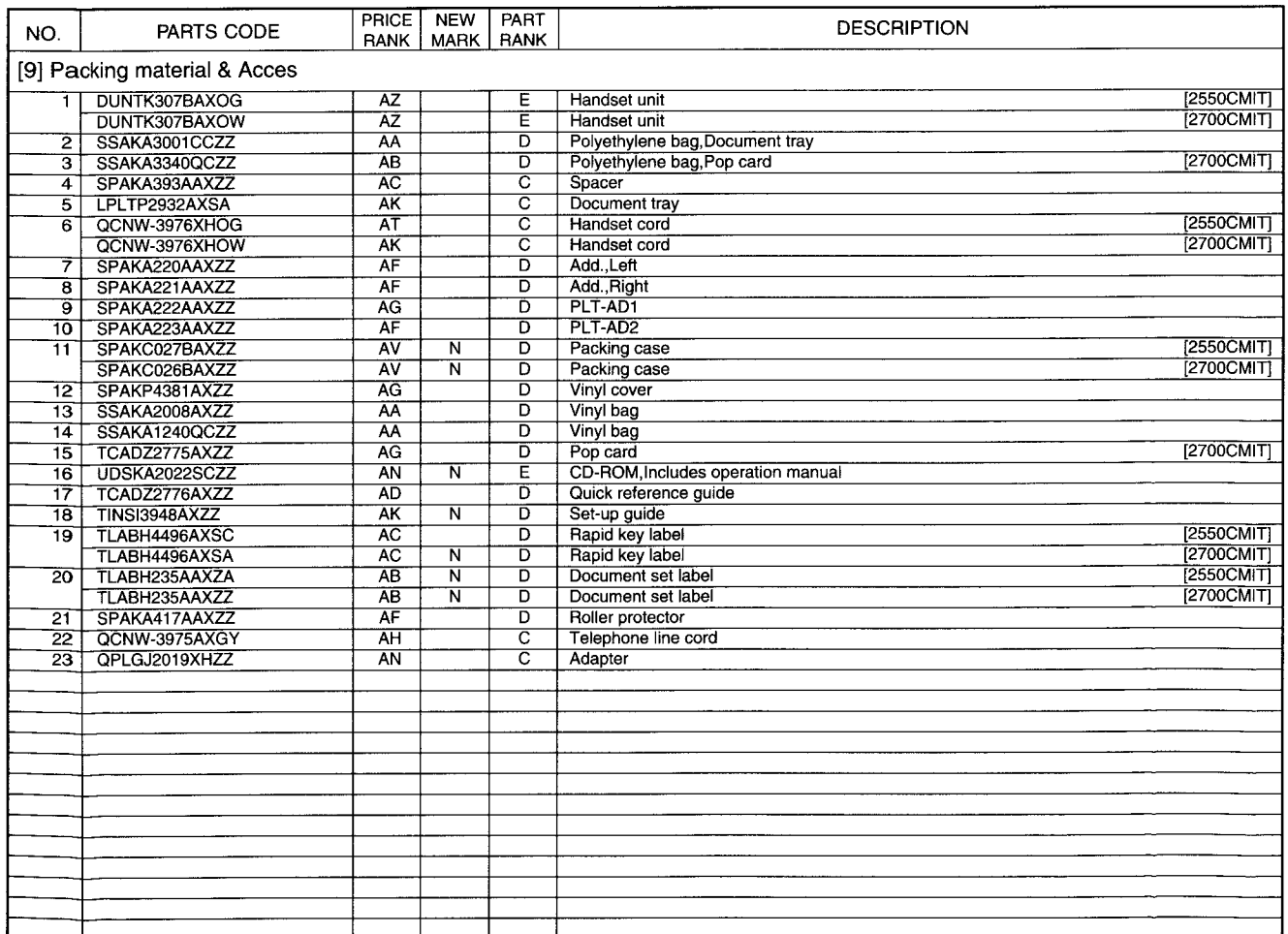
UX-2700CMIT
FO-2550CMIT

8 Printer unit

Note : Since the parts circled by dots can not be supplied, change it as a unit



9 Packing material & Accessories



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[10] Control PWB unit						
1	UBATL2061SCZZ	AN		B	Lithium battery	[BAT]
2	VCEAGA1EW107M	AB		C	Capacitor(25WV 100μF)	[C2]
3	RC-EZ107BRC1C	AH		C	Capacitor(16WV 100μF)	[C5]
4	VCEAGA1EW107M	AB		C	Capacitor(25WV 100μF)	[C6]
5	VCEAGA1HW107M	AA		C	Capacitor(50WV 100μF)	[C7]
6	VCEAGA1HW107M	AA		C	Capacitor(50WV 100μF)	[C8]
7	VCEAGA1EW226M	AB		C	Capacitor(25WV 22μF)	[C10]
8	VCEAGA1HW105M	AB		C	Capacitor(50WV 1μF)	[C11]
9	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7μF)	[C12]
10	VCEAGA1EW107M	AB		C	Capacitor(25WV 100μF)	[C13]
11	VCEAGA1HW476M	AB		C	Capacitor(50WV 47μF)	[C15]
12	VCEAGA1HW336M	AB		C	Capacitor(50WV 33μF)	[C17]
13	VCEAGA1HW107M	AA		C	Capacitor(50WV 100μF)	[C18]
14	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C19]
15	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C20]
16	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C21]
17	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C102]
18	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C103]
19	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C104]
20	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C105]
21	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C107]
22	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C108]
23	VCCCTV1HH330J	AA		C	Capacitor(50WV 33PF)	[C109]
24	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C110]
25	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C111]
26	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C112]
27	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF)	[C114]
28	VCKYTV1HB103K	AB		C	Capacitor(50WV 0.01μF)	[C115]
29	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C116]
30	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C117]
31	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C118]
32	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C119]
33	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C120]
34	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C122]
35	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C123]
36	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C125]
37	VCCCTV1HH5R0D	AA		C	Capacitor(50WV 5PF)	[C126]
38	VCCCTV1HH5R0D	AA		C	Capacitor(50WV 5PF)	[C127]
39	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C128]
40	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C129]
41	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C130]
42	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C131]
43	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C132]
44	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C133]
45	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C134]
46	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C135]
47	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C136]
48	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C137]
49	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C138]
50	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C139]
51	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C140]
52	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C141]
53	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C142]
54	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C143]
55	VCCCTV1HH180J	AA		C	Capacitor(50WV 18PF)	[C144]
56	VCCCTV1HH180J	AA		C	Capacitor(50WV 18PF)	[C145]
57	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C146]
58	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C147]
59	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C148]
60	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C149]
61	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C150]
62	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C151]
63	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C152]
64	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C153]
65	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C154]
66	VCCCTV1HH5R0D	AA		C	Capacitor(50WV 5PF)	[C155]
67	VCCCTV1HH5R0D	AA		C	Capacitor(50WV 5PF)	[C156]
68	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C157]
69	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C158]
70	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C159]
71	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C160]
72	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C163]
73	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C164]
74	VCCSTV1HL471J	AC		C	Capacitor(50WV 470PF)	[C166]
75	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C167]
76	VCCSTV1HL102J	AA		C	Capacitor(50WV 1000PF)	[C168]
77	VCCCTV1HH120J	AA		C	Capacitor(50WV 12PF)	[C169]
78	VCCCTV1HH120J	AA		C	Capacitor(50WV 12PF)	[C170]
79	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C171]
80	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C172]

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NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] Control PWB unit					
81	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C173]
82	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C174]
83	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C175]
84	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C176]
85	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C177]
86	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C179]
87	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C180]
88	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2μF) [C181]
89	VCCSTV1HL391J	AA		C	Capacitor(50WV 390PF) [C182]
90	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C183]
91	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C184]
92	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C185]
93	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C187]
94	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF) [C188]
95	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF) [C190]
96	VCCSTV1HL102J	AA		C	Capacitor(50WV 1000PF) [C191]
97	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF) [C192]
98	VCCSTV1HL681J	AB		C	Capacitor(50WV 680PF) [C193]
99	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C194]
100	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C195]
101	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C196]
102	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2μF) [C197]
103	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF) [C198]
104	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF) [C199]
105	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF) [C200]
106	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C201]
107	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C202]
108	VCCCTV1HH100D	AA		C	Capacitor(50WV 10PF) [C203]
109	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF) [C204]
110	VCCSTV1HL331J	AA		C	Capacitor(50WV 330PF) [C205]
111	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C206]
112	VCCCTV1HH100D	AA		C	Capacitor(50WV 10PF) [C207]
113	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2μF) [C208]
114	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C209]
115	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C210]
116	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C211]
117	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C213]
118	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C215]
119	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C216]
120	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C217]
121	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C218]
122	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C219]
123	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C220]
124	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C221]
125	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C222]
126	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C223]
127	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C224]
128	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C225]
129	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C226]
130	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C227]
131	VCCCTV1HH470J	AA		C	Capacitor(50WV 47PF) [C230]
132	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C234]
133	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C235]
134	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C236]
135	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C237]
136	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C238]
137	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C239]
138	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C240]
139	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C241]
140	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C242]
141	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C243]
142	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C244]
143	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C245]
144	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C246]
145	VCCCTV1HH5R0D	AA		C	Capacitor(50WV 5PF) [C247]
146	VCCSTV1HL331J	AA		C	Capacitor(50WV 330PF) [C248]
147	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C249]
148	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C250]
149	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF) [C251]
150	VCCSTV1HL121J	AC		C	Capacitor(50WV 120PF) [C253]
151	VCCSTV1HL121J	AC		C	Capacitor(50WV 120PF) [C254]
152	VCCSTV1HL471J	AC		C	Capacitor(50WV 470PF) [C271]
153	VCCSTV1HL121J	AC		C	Capacitor(50WV 120PF) [C272]
154	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C273]
155	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C274]
156	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C275]
157	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C276]
158	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C277]
159	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C281]
160	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C282]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] Control PWB unit					
161	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C283]
162	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C284]
163	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C285]
164	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C286]
165	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C288]
166	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C289]
167	VCCSTV1HL331J	AA		C	Capacitor(50WV 330PF) [C290]
168	VCCSTV1HL331J	AA		C	Capacitor(50WV 330PF) [C291]
169	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C292]
170	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C293]
171	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C297]
172	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C298]
173	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C299]
174	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C300]
175	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C301]
176	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C302]
177	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C303]
178	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C304]
179	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C305]
180	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C306]
181	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C307]
182	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C308]
183	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C309]
184	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C310]
185	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C311]
186	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C312]
187	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C313]
188	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C314]
189	VCCCTV1HH820J	AA		C	Capacitor(50WV 82PF) [C315]
190	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C316]
191	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C317]
192	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C318]
193	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF) [C320]
194	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C321]
195	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C322]
196	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C323]
197	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C324]
198	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [C325]
199	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C327]
200	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C328]
201	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF) [C329]
202	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF) [C330]
203	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF) [C331]
204	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C332]
205	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF) [C333]
206	VCCCTV1HH151J	AA		C	Capacitor(50WV 150PF) [C337]
207	QSOCZ2065SCZZ	AE		C	Battery holder [CNBAT]
208	QCNCM7014SC1B	AD		C	Connector(12pin) [CNCIS]
209	QCNCM2499SC1D	AG		C	Connector(14pin) [CNLIUA]
210	QCNCM2499SC0D	AG		C	Connector(6pin) [CNLIUB]
211	QCNCM7014SC0F	AB		C	Connector(6pin) [CNMM]
212	QCNCW0946FCZZ	AH		C	Connector(36pin) [CNPC]
213	QCNCM2401SC0F	AB		C	Connector(6pin) [CNPHOT]
214	QCNCM2482SC2J	AE		C	Connector(20pin) [CNPN]
215	QCNCM2482SC2H	AG		C	Connector(28pin) [CNPRT]
216	QCNCM2499SC0H	AE		C	Connector(8pin) [CNPW]
217	QCNCM7014SC0B	AD		C	Connector(2pin) [CNSP]
218	VHD1SS355/-1	AB		B	Diode(1SS355) [D1]
219	VHD1SS355/-1	AB		B	Diode(1SS355) [D2]
220	VHDDAP202U/-1	AB		B	Diode(DAP202U) [D3]
221	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D104]
222	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D105]
223	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D114]
224	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D115]
225	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D117]
226	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D118]
227	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D119]
228	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D120]
229	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D122]
230	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D123]
231	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D124]
232	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D125]
233	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D126]
234	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D127]
235	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D128]
236	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D130]
237	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D131]
238	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D132]
239	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D133]
240	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR) [D134]

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NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[10] Control PWB unit						
241	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR)	[D135]
242	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR)	[D137]
243	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR)	[D139]
244	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR)	[D140]
245	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR)	[D141]
246	VHDHRW0502A-1	AD		B	Diode(HRW0502ATR)	[D147]
247	VHVICPS07/-1	AA		B	IC protector(ICP-S07)	[F100]
248	VHIAD8051/-1	AN		B	IC(AD8051)	[IC1]
249	VHIULN2003AN/	AE		B	IC(ULN2003)	[IC2]
250	VHIHECF4066BF	AF		B	IC(HEF4066BT)	[IC3]
251	VHIHD74LS08-1	AD		B	IC(HD74LS08)	[IC4]
252	VHI74HCU04S-1	AF		B	IC(74HCU04)	[IC5]
253	VHILC821040N4	BD		B	IC(LC821040-NF4)	[IC6]
254	VHIHECF4066BF	AF		B	IC(HEF4066BT)	[IC7]
255	VHIMC14053DR2	AG		B	IC(MC14053DR)	[IC8]
256	VHI74HCU04S-1	AF		B	IC(74HCU04)	[IC9]
257	VHILZ9FJ49/-1	AV		B	IC(LZ9FJ49)	[IC10]
258	VHISH7040/-2	BD		B	IC(SH7040)	[IC11]
259	VHISN74HC14NS	AE		B	IC(74HC14)	[IC12]
260	VHINJM2902M-1	AF		B	IC(NJM2902M)	[IC13]
261	VHISN74HC164N	AG		B	IC(HC164)	[IC14]
262	VHISN74HC04NS	AC		B	IC(HC04)	[IC15]
263	VHIR144AFXL/1	BM		B	IC(R144EFL)	[IC16]
264	QSOCZ2051SC32	AC		C	IC socket(32pin)	[IC17]
265	VHI27080FAK1G	BQ	N	B	IC,EP ROM(8Mbit)	[IC17]
266	QSOCZ2051SC32	AC		C	IC socket(32pin)	[IC18]
267	VHI27080FAK0G	BQ	N	B	IC,EP ROM(8Mbit)	[IC18]
268	VHIHY18164CJ6	AY		B	IC,DRAM(HY5118164CJC-60)	[IC19]
269	VHI43257BG70L	AR		B	IC,SRAM(μ PD43257BGU-70LL)	[IC20]
270	VHISN74LS245N	AR		B	IC(74LS245)	[IC21]
271	VHISN74LS244N	AS		B	IC(SN74LS244)	[IC22]
272	VHISN74LS244N	AS		B	IC(SN74LS244)	[IC23]
273	VHIHY18164CJ6	AY		B	IC,DRAM(HY5118164CJC-60)	[IC24]
274	VHI43257BG70L	AR		B	IC,SRAM(μ PD43257BGU-70LL)	[IC25]
275	VHITC7W74FU-1	AD		B	IC(TC7W74FU)	[IC27]
276	VHINJM2113M-1	AG		B	IC(NJM2113M)	[IC28]
277	VHINJU6355E-1	AM		B	IC(NJU6355M)	[IC29]
278	VHINJM2902M-1	AF		B	IC(NJM2902M)	[IC30]
279	VHIPST596CMT1	AF		B	IC(PST596)	[IC31]
280	VRS-TV2AB680J	AA		C	Resistor(1/10W 68 Ω $\pm$ 5%)	[L100]
281	VRS-TV2AB680J	AA		C	Resistor(1/10W 68 Ω $\pm$ 5%)	[L101]
282	VRS-TQ2BB000J	AA		C	Resistor(1/8W 0 Ω $\pm$ 5%)	[L103]
283	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%)	[L104]
284	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%)	[L105]
285	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%)	[L106]
286	VS2SD1858R2-1	AC		B	Transistor(2SD1858)	[Q1]
287	VS2SD1858R2-1	AC		B	Transistor(2SD1858)	[Q2]
288	VS2SD1858R2-1	AC		B	Transistor(2SD1858)	[Q3]
289	VSDTA114EK/-1	AB		B	Transistor(DTA114EKA)	[Q101]
290	VSDTC114EK/-1	AB		B	Transistor(DTC114EK)	[Q102]
291	VSDTC114EK/-1	AB		B	Transistor(DTC114EK)	[Q103]
292	VSDTC114EK/-1	AB		B	Transistor(DTC114EK)	[Q104]
293	VRS-HT3AA5R1J	AB		C	Resistor(1W 5.1 Ω $\pm$ 5%)	[R1]
294	VRS-HT3AA5R1J	AB		C	Resistor(1W 5.1 Ω $\pm$ 5%)	[R2]
295	VRS-HT3AA750J	AA		C	Resistor(1W 75 Ω $\pm$ 5%)	[R3]
296	VRD-HT2EY100J	AA		C	Resistor(1/4W 10 Ω $\pm$ 5%)	[R5]
297	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%)	[R6]
298	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%)	[R7]
299	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%)	[R8]
300	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%)	[R9]
301	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%)	[R10]
302	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%)	[R11]
303	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R103]
304	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R104]
305	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R105]
306	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R106]
307	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R107]
308	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R108]
309	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R109]
310	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R110]
311	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%)	[R111]
312	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%)	[R114]
313	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%)	[R115]
314	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%)	[R116]
315	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%)	[R117]
316	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%)	[R118]
317	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%)	[R119]
318	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%)	[R120]
319	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%)	[R121]
320	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%)	[R125]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[10] Control PWB unit						
321	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%)	[R127]
322	VRS-TV2AB152J	AB		C	Resistor(1/10W 1.5KΩ ±5%)	[R128]
323	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R132]
324	VRS-TV2AB201J	AA		C	Resistor(1/10W 200Ω ±5%)	[R133]
325	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%)	[R134]
326	VRS-TV2AB182J	AA		C	Resistor(1/10W 1.8KΩ ±5%)	[R135]
327	VRS-TV2AB201J	AA		C	Resistor(1/10W 200Ω ±5%)	[R136]
328	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%)	[R137]
329	VRS-TV2AB182J	AA		C	Resistor(1/10W 1.8KΩ ±5%)	[R138]
330	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R140]
331	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R142]
332	VRS-TQ2BB000J	AA		C	Resistor(1/8W 0Ω ±5%)	[R145]
333	VRS-TQ2BB000J	AA		C	Resistor(1/8W 0Ω ±5%)	[R147]
334	VRS-TV2AB203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R148]
335	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R149]
336	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R150]
337	VRS-TV2AB203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R151]
338	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R154]
339	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R156]
340	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R158]
341	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R160]
342	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R162]
343	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R164]
344	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R166]
345	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R168]
346	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R171]
347	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R172]
348	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R173]
349	VRS-TV2AB302J	AA		C	Resistor(1/10W 3KΩ ±5%)	[R178]
350	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R179]
351	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R181]
352	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R182]
353	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R183]
354	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R184]
355	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R187]
356	VRS-TV2AB363J	AA		C	Resistor(1/10W 36KΩ ±5%)	[R190]
357	VRS-TV2AB393J	AD		C	Resistor(1/10W 39KΩ ±5%)	[R191]
358	VRS-TV2AB201J	AA		C	Resistor(1/10W 200Ω ±5%)	[R192]
359	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R193]
360	VRS-TV2AB105J	AA		C	Resistor(1/10W 1MΩ ±5%)	[R194]
361	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R195]
362	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R196]
363	VRS-TV2AB203J	AA		C	Resistor(1/10W 20KΩ ±5%)	[R198]
364	VRS-TV2AB104J	AA		C	Resistor(1/10W 100KΩ ±5%)	[R199]
365	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%)	[R200]
366	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R209]
367	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R210]
368	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R211]
369	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R212]
370	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R213]
371	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R214]
372	VRS-TV2AB201J	AA		C	Resistor(1/10W 200Ω ±5%)	[R215]
373	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R216]
374	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R217]
375	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R218]
376	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R219]
377	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%)	[R220]
378	VRS-TV2AB183J	AD		C	Resistor(1/10W 18KΩ ±5%)	[R222]
379	VRS-TV2AB302J	AA		C	Resistor(1/10W 3KΩ ±5%)	[R223]
380	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R224]
381	VRS-TV2AB302J	AA		C	Resistor(1/10W 3KΩ ±5%)	[R225]
382	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%)	[R227]
383	VRS2S2AD1183F	AA		C	Resistor(1/10W 118KΩ ±1%)	[R228]
384	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R229]
385	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R230]
386	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R231]
387	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R232]
388	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R234]
389	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R235]
390	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R236]
391	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%)	[R237]
392	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%)	[R238]
393	VRS-TV2AB332J	AA		C	Resistor(1/10W 3.3KΩ ±5%)	[R239]
394	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R240]
395	VRS-TV2AB302J	AA		C	Resistor(1/10W 3KΩ ±5%)	[R241]
396	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R242]
397	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R243]
398	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R244]
399	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R245]
400	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%)	[R246]

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[10] Control PWB unit					
401	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R247]
402	VRSTS2AD8662F	AA		C	Resistor(1/10W 86.6KΩ ±1%) [R248]
403	VRS-TV2AB302J	AA		C	Resistor(1/10W 3KΩ ±5%) [R249]
404	VRS-TV2AB105J	AA		C	Resistor(1/10W 1MΩ ±5%) [R250]
405	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R251]
406	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R254]
407	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R255]
408	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R256]
409	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R257]
410	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R258]
411	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R259]
412	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R260]
413	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R261]
414	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R262]
415	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R263]
416	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R264]
417	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R265]
418	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%) [R266]
419	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R267]
420	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R268]
421	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R271]
422	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R272]
423	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R275]
424	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R277]
425	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R278]
426	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R279]
427	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%) [R280]
428	VRS-TV2AB104J	AA		C	Resistor(1/10W 100KΩ ±5%) [R281]
429	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%) [R282]
430	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R283]
431	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%) [R284]
432	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%) [R285]
433	VRS-TV2AB104J	AA		C	Resistor(1/10W 100KΩ ±5%) [R286]
434	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R287]
435	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R288]
436	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R289]
437	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R290]
438	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%) [R293]
439	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%) [R294]
440	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R295]
441	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R296]
442	VRSTS2AD4752F	AA		C	Resistor(1/10W 47.5KΩ ±1%) [R298]
443	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R299]
444	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R300]
445	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R301]
446	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R302]
447	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R303]
448	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R304]
449	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R305]
450	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R306]
451	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R307]
452	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R309]
453	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R310]
454	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R312]
455	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R313]
456	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R314]
457	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R315]
458	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R316]
459	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R317]
460	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R318]
461	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R319]
462	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R320]
463	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R321]
464	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R322]
465	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R323]
466	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R324]
467	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R325]
468	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%) [R326]
469	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R327]
470	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%) [R328]
471	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%) [R329]
472	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R330]
473	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R332]
474	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R333]
475	VRS-TV2AB333J	AD		C	Resistor(1/10W 33KΩ ±5%) [R334]
476	VRS-TV2AB271J	AA		C	Resistor(1/10W 270Ω ±5%) [R335]
477	VRS-TV2AB152J	AB		C	Resistor(1/10W 1.5KΩ ±5%) [R336]
478	VRS-TV2AB473J	AA		C	Resistor(1/10W 47KΩ ±5%) [R337]
479	VRS-TV2AB133J	AA		C	Resistor(1/10W 13KΩ ±5%) [R338]
480	VRSTS2AD8662F	AA		C	Resistor(1/10W 86.6KΩ ±1%) [R339]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] Control PWB unit					
481	VRS-TV2AB332J	AA		C	Resistor(1/10W 3.3K Ω $\pm$ 5%) [R340]
482	VRST2AD1742F	AA		C	Resistor(1/10W 17.4K Ω $\pm$ 1%) [R341]
483	VRS-TQ2BB200J	AA		C	Resistor(1/8W 20 Ω $\pm$ 5%) [R342]
484	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R344]
485	VRS-TV2AB680J	AA		C	Resistor(1/10W 68 Ω $\pm$ 5%) [R345]
486	VRS-TV2AB680J	AA		C	Resistor(1/10W 68 Ω $\pm$ 5%) [R346]
487	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R347]
488	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R348]
489	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R349]
490	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%) [R350]
491	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R352]
492	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R353]
493	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%) [R354]
494	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%) [R355]
495	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R356]
496	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R357]
497	VRS-TV2AB104J	AA		C	Resistor(1/10W 100K Ω $\pm$ 5%) [R359]
498	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R360]
499	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%) [R361]
500	VRS-TV2AB102J	AA		C	Resistor(1/10W 1K Ω $\pm$ 5%) [R362]
501	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R363]
502	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R364]
503	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R365]
504	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R366]
505	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R367]
506	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R368]
507	VRS-TV2AB473J	AA		C	Resistor(1/10W 47K Ω $\pm$ 5%) [R369]
508	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R370]
509	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R371]
510	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R372]
511	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%) [R373]
512	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R374]
513	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%) [R375]
514	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R376]
515	VRS-TV2AB154J	AB		C	Resistor(1/10W 150K Ω $\pm$ 5%) [R377]
516	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%) [R379]
517	VRS-TV2AB102J	AA		C	Resistor(1/10W 1K Ω $\pm$ 5%) [R381]
518	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%) [R382]
519	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%) [R384]
520	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%) [R385]
521	VRS-TV2AB271J	AA		C	Resistor(1/10W 270 Ω $\pm$ 5%) [R386]
522	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%) [R387]
523	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%) [R388]
524	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%) [R389]
525	VRS-TV2AB471J	AA		C	Resistor(1/10W 470 Ω $\pm$ 5%) [R390]
526	VRS-TV2AB681J	AA		C	Resistor(1/10W 680 Ω $\pm$ 5%) [R393]
527	VRS-TV2AB103J	AA		C	Resistor(1/10W 10K Ω $\pm$ 5%) [R394]
528	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R395]
529	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R396]
530	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R397]
531	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R398]
532	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%) [R399]
533	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R400]
534	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R401]
535	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R402]
536	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R403]
537	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%) [R404]
538	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R405]
539	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%) [R406]
540	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R407]
541	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R408]
542	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R409]
543	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R410]
544	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R411]
545	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R412]
546	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R413]
547	VRS-TV2AB101J	AA		C	Resistor(1/10W 100 Ω $\pm$ 5%) [R414]
548	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%) [R416]
549	VRS-TV2AB000J	AA		C	Resistor(1/10W 0 Ω $\pm$ 5%) [R417]
550	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R419]
551	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R420]
552	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R421]
553	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R422]
554	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R423]
555	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R424]
556	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R425]
557	VRS-TV2AB100J	AD		C	Resistor(1/10W 10 Ω $\pm$ 5%) [R426]
558	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R427]
559	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R428]
560	VRS-TV2AB330J	AD		C	Resistor(1/10W 33 Ω $\pm$ 5%) [R429]

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FO-2550CMIT

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] Control PWB unit					
561	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R430]
562	VRS-TV2AB121J	AA		C	Resistor(1/10W 120Ω ±5%) [R431]
563	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R433]
564	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R434]
565	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R435]
566	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R436]
567	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R437]
568	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R438]
569	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R439]
570	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R440]
571	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R441]
572	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R442]
573	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R443]
574	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R444]
575	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R445]
576	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R446]
577	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R447]
578	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R448]
579	VRS-TV2AB470J	AA		C	Resistor(1/10W 47Ω ±5%) [R449]
580	VRS-TV2AB562J	AA		C	Resistor(1/10W 5.6KΩ ±5%) [R450]
581	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R451]
582	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R452]
583	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R453]
584	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R454]
585	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R455]
586	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R456]
587	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R457]
588	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R458]
589	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R459]
590	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R460]
591	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R461]
592	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R462]
593	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R463]
594	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R464]
595	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R465]
596	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R466]
597	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R467]
598	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R468]
599	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R469]
600	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R470]
601	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R471]
602	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R472]
603	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R473]
604	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R474]
605	VRS-TV2AB122J	AA		C	Resistor(1/10W 1.2KΩ ±5%) [R475]
606	VRS-TQ2B561J	AA		C	Resistor(1/8W 560Ω ±5%) [R477]
607	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R478]
608	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R479]
609	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R480]
610	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R481]
611	VRS-TV2AB121J	AA		C	Resistor(1/10W 120Ω ±5%) [R482]
612	VRS-TV2AB330J	AD		C	Resistor(1/10W 33Ω ±5%) [R485]
613	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R486]
614	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R488]
615	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R490]
616	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R502]
617	VRS-TV2AB221J	AA		C	Resistor(1/10W 220Ω ±5%) [R512]
618	VRS-TV2AB151J	AA		C	Resistor(1/10W 150Ω ±5%) [R513]
619	VRS-TV2AB100J	AD		C	Resistor(1/10W 10Ω ±5%) [R514]
620	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R516]
621	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R517]
622	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R518]
623	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R519]
624	VRS-TV2AB101J	AA		C	Resistor(1/10W 100Ω ±5%) [R520]
625	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R521]
626	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R522]
627	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R523]
628	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R524]
629	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R525]
630	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R526]
631	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R527]
632	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R528]
633	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R532]
634	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R533]
635	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R534]
636	RCRSZ1017LCZZ	AF		B	Crystal(32MHz) [X1]
637	RCRSQ2123AXZZ	AL		B	Crystal(6.912MHz) [X2]
638	RCRSB0297AFZZ	AD		B	Crystal(32.768KHz) [X3]
639	RCRSQ2124AXZZ	AL		B	Crystal(16MHz) [X4]
640	RCRSQ2109SCZZ	AL		B	Crystal(38.00053MHz) [X5]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[10] Control PWB unit						
641	VHERD22FB3/-1	AC		B	Zener diode(RD22FB3)	[ZD1]
642	TLABN1235CCZZ	AA		D	EPROM label	
	(Unit)					
901	CPWBX3021AX05	CL	N	E	Control PWB unit(Without ROM)	
[11] TEL-Liu PWB unit						
1	VHVRA501PV6-1	AE		B	Varistor	[AR1]
2	VHVRA501PV6-1	AE		B	Varistor	[AR2]
3	QCNCW-4806AXZZ	AD		C	ARG cable	[ARG]
4	VCEAGA1EW476M	AA		C	Capacitor(25WV 47μF)	[C1]
5	VCEAGA1HW226M	AB		C	Capacitor(50WV 22μF)	[C2]
6	VCEAGA1HW225M	AA		C	Capacitor(50WV 2.2μF)	[C3]
7	VCEAGA1HW106M	AA		C	Capacitor(50WV 10μF)	[C4]
8	VCEAGA1EW107M	AB		C	Capacitor(25WV 100μF)	[C5]
9	RC-FZ3028SCZZ	AG		C	Capacitor(250WV 0.56μF)	[C6]
10	RC-FZ2023SCZZ	AF		C	Capacitor(250WV 1.5μF)	[C7]
11	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7μF)	[C8]
12	VCEAGA1EW476M	AA		C	Capacitor(25WV 47μF)	[C9]
13	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7μF)	[C10]
14	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C101]
15	VCKYTQ1HB153K	AB		C	Capacitor(50WV 0.015μF)	[C102]
16	VCKYTQ1HB683K	AB		C	Capacitor(50WV 0.068μF)	[C103]
17	VCKYTV1HB221K	AA		C	Capacitor(50WV 220PF)	[C104]
18	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF)	[C105]
19	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C106]
20	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C108]
21	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C109]
22	VCKYTV1HB471K	AA		C	Capacitor(50WV 470PF)	[C110]
23	VCKYTQ1HB683K	AB		C	Capacitor(50WV 0.068μF)	[C111]
24	VCKYTV1HB103K	AB		C	Capacitor(50WV 0.01μF)	[C112]
25	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C113]
26	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C114]
27	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C115]
28	VCKYTV1HB103K	AB		C	Capacitor(50WV 0.01μF)	[C116]
29	VCKYTV1HB223K	AA		C	Capacitor(50WV 0.022μF)	[C117]
30	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C118]
31	VCKYTV1CF105Z	AB		C	Capacitor(16WV 1μF)	[C119]
32	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C121]
33	VCKYTQ1HB222K	AA		C	Capacitor(50WV 2200PF)	[C122]
34	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF)	[C123]
35	VCKYTV1HB221K	AA		C	Capacitor(50WV 220PF)	[C124]
36	VCKYTV1HB821K	AA		C	Capacitor(50WV 820PF)	[C125]
37	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C126]
38	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C127]
39	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C128]
40	VCKYTV1HB182K	AA		C	Capacitor(50WV 1800PF)	[C129]
41	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF)	[C130]
42	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C131]
43	RRLYZ3427SCZZ	AN		B	Relay(TXD2-2M-24V-1)	[CML]
44	QJAKZ2065SC0D	AG		C	Hand-jack	[CNHJ]
45	QCNCW2500SC1D	AG		C	Connector(14pin)	[CNLIUA]
46	QCNCW2500SC0D	AG		C	Connector(4pin)	[CNLIUB]
47	QJAKZ2046SCFB	AH		C	Jack(6-2pin)	[CNLNJ]
48	VHDSS131/-1	AA		B	Diode(1SS131)	[D1]
49	VHD1SS133/-1	AA		B	Diode(1SS133)	[D2]
50	VHD1SS133/-1	AA		B	Diode(1SS133)	[D3]
51	VHDSS131/-1	AA		B	Diode(1SS131)	[D4]
52	VHINJM2904M-1	AE		B	IC(NJM2904)	[IC101]
53	VHINJM2904M-1	AE		B	IC(NJM2904)	[IC102]
54	VHINJM2904M-1	AE		B	IC(NJM2904)	[IC103]
55	RFLN2027XHZZ	AC		C	Coil	[L3A]
56	RFLN2027XHZZ	AC		C	Coil	[L3B]
57	RFLN2027XHZZ	AC		C	Coil	[L5]
58	RFLN2027XHZZ	AC		C	Coil	[L6]
59	RFLN2027XHZZ	AC		C	Coil	[L7]
60	RCLZ2120SCZZ	AD		C	Coil	[L8]
61	VHPTLP521-1BL	AE		B	Photo coupler(TLP521)	[PC1]
62	VHPTLP627/-1	AH		B	Photo coupler(TLP627)	[PC3]
63	VHPTLP627/-1	AH		B	Photo coupler(TLP627)	[PC4]
64	VHPTLP627/-1	AH		B	Photo coupler(TLP627)	[PC5]
65	VHPTLP521-1BL	AE		B	Photo coupler(TLP521)	[PC6]
66	VHPSG206S/-1	AG		B	Photo transistor(SG206S)	[PE1]
67	VSSS108/-1	AE		B	Transistor(BS108)	[Q1]
68	VSRNC1402/-1	AC		B	Transistor(RNC1402)	[Q101]
69	VSRNC1402/-1	AC		B	Transistor(RNC1402)	[Q102]
70	VSRNC1402/-1	AC		B	Transistor(RNC1402)	[Q103]

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NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] TEL-Liu PWB unit					
71	VSRNC1402/-1	AC		B	Transistor(RNC1402) [Q104]
72	VSRNC1402/-1	AC		B	Transistor(RNC1402) [Q105]
73	VS2SJ106GR/-1	AD		B	Transistor(2SJ106GR) [Q106]
74	VS2SJ106GR/-1	AD		B	Transistor(2SJ106GR) [Q107]
75	VS2SC2412KR-1	AD		B	Transistor(2SC2412K) [Q108]
76	VRD-HT2HY223J	AA		C	Resistor(1/2W 22KΩ ±5%) [R2]
77	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%) [R101]
78	VRS-TS2AD621J	AA		C	Resistor(1/10W 620Ω ±5%) [R102]
79	VRS-TS2AD223J	AA		C	Resistor(1/10W 22KΩ ±5%) [R103]
80	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%) [R104]
81	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R105]
82	VRS-TS2AD113J	AA		C	Resistor(1/10W 11KΩ ±5%) [R106]
83	VRS-TS2AD331J	AA		C	Resistor(1/10W 330Ω ±5%) [R107]
84	VRS-TS2AD223J	AA		C	Resistor(1/10W 22KΩ ±5%) [R108]
85	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%) [R109]
86	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%) [R111]
87	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%) [R112]
88	VRS-TS2AD104J	AA		C	Resistor(1/10W 100KΩ ±5%) [R113]
89	VRS-TS2AD221J	AA		C	Resistor(1/10W 220Ω ±5%) [R114]
90	VRS-TS2AD221J	AA		C	Resistor(1/10W 220Ω ±5%) [R115]
91	VRS-TS2AD221J	AA		C	Resistor(1/10W 220Ω ±5%) [R116]
92	VRS-TS2AD471J	AA		C	Resistor(1/10W 470Ω ±5%) [R117]
93	VRS-TS2AD621J	AA		C	Resistor(1/10W 620Ω ±5%) [R118]
94	VRS-TS2AD683J	AA		C	Resistor(1/10W 68KΩ ±5%) [R119]
95	VRS-TS2AD333J	AA		C	Resistor(1/10W 33KΩ ±5%) [R120]
96	VRS-TS2AD822J	AA		C	Resistor(1/10W 8.2KΩ ±5%) [R121]
97	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%) [R122]
98	VRS-TS2AD223J	AA		C	Resistor(1/10W 22KΩ ±5%) [R123]
99	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%) [R124]
100	VRS-TS2AD303J	AA		C	Resistor(1/10W 30KΩ ±5%) [R125]
101	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%) [R126]
102	VRS-TS2AD683J	AA		C	Resistor(1/10W 68KΩ ±5%) [R127]
103	VRS-TP2BD150J	AA		C	Resistor(1/8W 15Ω ±5%) [R128]
104	VRS-TS2AD133J	AA		C	Resistor(1/10W 13KΩ ±5%) [R129]
105	VRS-TS2AD124J	AA		C	Resistor(1/10W 120KΩ ±5%) [R131]
106	VRS-TS2AD273J	AA		C	Resistor(1/10W 27KΩ ±5%) [R132]
107	VRS-TS2AD152J	AA		C	Resistor(1/10W 1.5KΩ ±5%) [R133]
108	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R134]
109	VRS-TS2AD332J	AA		C	Resistor(1/10W 3.3KΩ ±5%) [R135]
110	VRS-TS2AD151J	AA		C	Resistor(1/10W 150Ω ±5%) [R136]
111	VRS-TS2AD822J	AA		C	Resistor(1/10W 8.2KΩ ±5%) [R137]
112	VRS-TS2AD134J	AA		C	Resistor(1/10W 130KΩ ±5%) [R138]
113	VRS-TS2AD203J	AA		C	Resistor(1/10W 20KΩ ±5%) [R139]
114	VRS-TS2AD102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R140]
115	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%) [R141]
116	VRS-TS2AD103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R142]
117	VRS-TP2BD301J	AA		C	Resistor(1/8W 300Ω ±5%) [R143]
118	VRS-TS2AD133J	AA		C	Resistor(1/10W 13KΩ ±5%) [R144]
119	VRS-TP2BD360J	AA		C	Resistor(1/8W 36Ω ±5%) [R145]
120	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%) [R146]
121	RH-DX2007SCZZ	AC		B	Diode bridge(SIZB60) [REC1]
122	QSW-Z2206SCZZ	AH		B	Hook switch(SPPY11-BM) [SW2]
123	RTRN12142XHZZ	AR		B	Line transformer(I2142) [T1]
124	VHVDSS301L-U	AF		B	Varistor(DSS-301L) [VA2]
125	VHEHZ2A1///-1	AC		B	Zener diode(HZ2A1) [ZD1]
126	VHEHZ2A1///-1	AC		B	Zener diode(HZ2A1) [ZD2]
127	VHEMTZJ4R7B-1	AC		B	Zener diode(MTZJ4R7B) [ZD3]
128	VHEMTZJ4R7B-1	AC		B	Zener diode(MTZJ4R7B) [ZD4]
129	VHEMTZJ6R8B-1	AC		B	Zener diode(MTZJ6R8B) [ZD5]
130	VHEMTZJ300B-1	AA		B	Zener diode(MTZJ30B) [ZD6]
131	VHEMTZJ300B-1	AA		B	Zener diode(MTZJ30B) [ZD7]
132	VHEMTZJ2R4B-1	AB		B	Zener diode(MTZJ2R4B) [ZD8]
133	VHEMTZJ2R4B-1	AB		B	Zener diode(MTZJ2R4B) [ZD9]
	(Unit)				
901	DCEKL437BAX03	CA	N	E	TEL/Liu PWB unit
[12] Ink sensor PWB unit					
1	VCEAEA1CW106M	AC		C	Capacitor(16WV 10μF) [C1]
2	VCEAEA1CW106M	AC		C	Capacitor(16WV 10μF) [C2]
3	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C101]
4	VCKYTV1EF104Z	AA		C	Capacitor(25WV 0.1μF) [C103]
5	VCKYTV1HB121K	AA		C	Capacitor(50WV 120PF) [C104]
6	VCKYTV1EB104K	AA		C	Capacitor(25WV 0.1μF) [C106]
7	QCNCM704FAF02	AC		C	Connector(6pin) [CNP010]
8	VHPPD410PI-1	AE		B	Photo transistor(PD410PI) [D1]
9	VHPGL480///-1	AD		B	Photo transistor(GL480) [D2]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[12] Ink sensor PWB unit						
10	VHD1SS355/-1	AB		B	Diode(1SS355)	[D101]
11	VHINJM324M/-1	AH		B	IC(NJM324M)	[IC1]
12	VHINJM311M/-1	AL		B	IC(NJM311M)	[IC2]
13	VS2SC2412KR-1	AD		B	Transistor(2SC2412K)	[Q101]
14	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R101]
15	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R102]
16	VRS-TV2AB434J	AA		C	Resistor(1/10W 430KΩ ±5%)	[R103]
17	VRS-TV2AB222J	AA		C	Resistor(1/10W 2.2KΩ ±5%)	[R104]
18	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R105]
19	VRS-TV2AB222J	AA		C	Resistor(1/10W 2.2KΩ ±5%)	[R106]
20	VRS-TV2AB434J	AA		C	Resistor(1/10W 430KΩ ±5%)	[R107]
21	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R108]
22	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R109]
23	VRS-TV2AB124J	AA		C	Resistor(1/10W 120KΩ ±5%)	[R110]
24	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%)	[R111]
25	VRS-TV2AB434J	AA		C	Resistor(1/10W 430KΩ ±5%)	[R112]
26	VRS-TV2AB473J	AA		C	Resistor(1/10W 47KΩ ±5%)	[R113]
27	VRS-TV2AB151J	AA		C	Resistor(1/10W 150Ω ±5%)	[R114]
28	VRS-TV2AB151J	AA		C	Resistor(1/10W 150Ω ±5%)	[R115]
29	VRS-TV2AB104J	AA		C	Resistor(1/10W 100KΩ ±5%)	[R116]
30	VRS-TV2AB332J	AA		C	Resistor(1/10W 3.3KΩ ±5%)	[R117]
	(Unit)					
901	DCEKS396BAX01	AZ		E	Ink sensor PWB	
[13] Printer PWB unit						
1	VCEAGA1VW107M	AB		C	Capacitor(35WV 100μF)	[C1]
2	VCEAGU1VW107M	AB		C	Capacitor(35WV 100μF)	[C2]
3	VCEAZU1VJ108M	AG		C	Capacitor(35WV 1000μF)	[C3]
4	VCEAGA1CW107M	AC		C	Capacitor(16WV 100μF)	[C4]
5	VCEAGA1VW107M	AB		C	Capacitor(35WV 100μF)	[C5]
6	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C100]
7	VCCCTV1HH331J	AA		C	Capacitor(50WV 330PF)	[C101]
8	VCCCTV1HH471J	AA		C	Capacitor(50WV 470PF)	[C102]
9	VCCCTV1HH471J	AA		C	Capacitor(50WV 470PF)	[C103]
10	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2μF)	[C104]
11	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C105]
12	VCKYTV1HB103K	AB		C	Capacitor(50WV 0.01μF)	[C106]
13	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C107]
14	VCCCTV1HH331J	AA		C	Capacitor(50WV 330PF)	[C108]
15	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C109]
16	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C110]
17	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C111]
18	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2μF)	[C112]
19	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2μF)	[C113]
20	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C114]
21	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C115]
22	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C116]
23	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C117]
24	VCCCTV1HH101J	AA		C	Capacitor(50WV 100PF)	[C118]
25	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C119]
26	VCCCTV1HH561J	AA		C	Capacitor(50WV 560PF)	[C120]
27	VCCCTV1HH561J	AA		C	Capacitor(50WV 560PF)	[C121]
28	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C123]
29	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C125]
30	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C126]
31	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C127]
32	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C128]
33	VCCCTV1HH101J	AA		C	Capacitor(50WV 100PF)	[C129]
34	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C130]
35	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C131]
36	VCKYTV1HF103Z	AA		C	Capacitor(50WV 0.01μF)	[C132]
37	VCCCTV1HH150J	AA		C	Capacitor(50WV 15PF)	[C133]
38	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C134]
39	VCCCTV1HH220J	AA		C	Capacitor(50WV 22PF)	[C135]
40	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C136]
41	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C137]
42	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C138]
43	VCKYTV1HB472K	AA		C	Capacitor(50WV 4700PF)	[C139]
44	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C140]
45	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C141]
46	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF)	[C142]
47	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2μF)	[C143]
48	VCCCTV1HH561J	AA		C	Capacitor(50WV 560PF)	[C144]
49	VCCCTV1HH561J	AA		C	Capacitor(50WV 560PF)	[C145]
50	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C147]
51	VCKYTV1HF103Z	AA		C	Capacitor(50WV 0.01μF)	[C148]

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NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[13] Printer PWB unit					
52	VCCCTV1HH150J	AA		C	Capacitor(50WV 15PF) [C149]
53	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF) [C150]
54	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF) [C151]
55	VCCCTV1HH102J	AA		C	Capacitor(50WV 1000PF) [C155]
56	VCCCTV1HH560J	AA		C	Capacitor(50WV 56PF) [C156]
57	VCCCTV1HH560J	AA		C	Capacitor(50WV 56PF) [C157]
58	VCCCTV1HH560J	AA		C	Capacitor(50WV 56PF) [C158]
59	VCCCTV1HH560J	AA		C	Capacitor(50WV 56PF) [C159]
60	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF) [C160]
61	VCKYTV1HF104Z	AA		C	Capacitor(50WV 0.1μF) [C161]
62	QCNCM7014SC0E	AB		C	Connector(5pin) [CN1]
63	QCNCM7014SC0D	AB		C	Connector(4pin) [CN2]
64	QCNCW2556SC3B	AG		C	Connector(32pin) [CN3]
65	QCNCW2556SC3B	AG		C	Connector(32pin) [CN4]
66	QCNCM2482SC2H	AG		C	Connector(28pin) [CNPRT]
67	VHDERA81004-1	AE		B	Diode(ERA81-004) [D1]
68	VHDERA81004-1	AE		B	Diode(ERA81-004) [D2]
69	VHDERA81004-1	AE		B	Diode(ERA81-004) [D3]
70	VHDERA81004-1	AE		B	Diode(ERA81-004) [D4]
71	VHVICPS07/-1	AA		B	Varistor(ICP-S07) [F100]
72	VHVICPS07/-1	AA		B	Varistor(ICP-S07) [F101]
73	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [FB100]
74	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [FB101]
75	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [FB102]
76	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [FB103]
77	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [FB104]
78	VHILB1845/-1	AY		B	IC(LB1845) [IC1]
79	VHISTA471A/-1	AK		B	IC(STA471A) [IC2]
80	VHIW24257S7LL	AP		B	IC(W24257) [IC3]
81	VHIL6451///-1	AX		B	IC(L6451) [IC4]
82	VHITC190G04AF	BD		B	IC(TC190G04) [IC5]
83	VHIL6451///-1	AX		B	IC(L6451) [IC6]
84	VHITMP87PH47U	AZ		B	IC(TMP87C807U) [IC8]
85	VHPSG206S/-1	AG		B	Photo transistor(SG206S) [PC1]
86	VS2SB1261K/-1	AE		B	Transistor(2SB1261(K)) [Q1]
87	VS2SC2412KR-1	AD		B	Transistor(2SC2412K) [Q101]
88	RR-SZ3013SCZZ	AC		C	Resistor(1W 22.1Ω ±1%) [R1]
89	RR-SZ3013SCZZ	AC		C	Resistor(1W 22.1Ω ±1%) [R2]
90	VRS-HT3AAR75J	AC		C	Resistor(1W 0.75Ω ±5%) [R3]
91	VRS-HT3AAR75J	AC		C	Resistor(1W 0.75Ω ±5%) [R4]
92	RR-SZ3013SCZZ	AC		C	Resistor(1W 22.1Ω ±1%) [R6]
93	RR-SZ3013SCZZ	AC		C	Resistor(1W 22.1Ω ±1%) [R7]
94	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%) [R100]
95	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%) [R101]
96	VRS-TV2AB223J	AA		C	Resistor(1/10W 22KΩ ±5%) [R102]
97	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R103]
98	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R104]
99	VRS-TV2AB563F	AB		C	Resistor(1/10W 56KΩ ±1%) [R105]
100	VRS-TV2AB563F	AB		C	Resistor(1/10W 56KΩ ±1%) [R106]
101	VRS-TV2AB152J	AB		C	Resistor(1/10W 1.5KΩ ±5%) [R110]
102	VRS-TV2AB222J	AA		C	Resistor(1/10W 2.2KΩ ±5%) [R111]
103	VRS-TV2AB152J	AB		C	Resistor(1/10W 1.5KΩ ±5%) [R112]
104	VRS-TV2AB222J	AA		C	Resistor(1/10W 2.2KΩ ±5%) [R113]
105	VRS-TV2AB152J	AB		C	Resistor(1/10W 1.5KΩ ±5%) [R114]
106	VRS-TV2AB222J	AA		C	Resistor(1/10W 2.2KΩ ±5%) [R115]
107	VRS-TV2AB222J	AA		C	Resistor(1/10W 2.2KΩ ±5%) [R116]
108	VRS-TV2AB152J	AB		C	Resistor(1/10W 1.5KΩ ±5%) [R117]
109	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R119]
110	VRS-TV2AB102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R120]
111	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R126]
112	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R127]
113	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R128]
114	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R129]
115	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R130]
116	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R131]
117	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R132]
118	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%) [R133]
119	VRS-TV2AB471J	AA		C	Resistor(1/10W 470Ω ±5%) [R134]
120	VRS-TV2AB223J	AA		C	Resistor(1/10W 22KΩ ±5%) [R135]
121	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R136]
122	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R137]
123	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R138]
124	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R139]
125	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R140]
126	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R141]
127	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R142]
128	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R143]
129	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R144]
130	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R145]
131	VRS-TV2AB682J	AB		C	Resistor(1/10W 6.8KΩ ±5%) [R146]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[13] Printer PWB unit					
132	VRS-TV2AB682J	AB		C	Resistor(1/10W 6.8KΩ ±5%) [R148]
133	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R152]
134	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R153]
135	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R154]
136	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R155]
137	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R156]
138	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R157]
139	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R158]
140	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R160]
141	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R165]
142	VRS-TV2AB562J	AA		C	Resistor(1/10W 5.6KΩ ±5%) [R166]
143	VRS-TV2AB105J	AA		C	Resistor(1/10W 1.0MΩ ±5%) [R167]
144	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R168]
145	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R171]
146	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R172]
147	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R173]
148	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R175]
149	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R176]
150	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R177]
151	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R178]
152	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R179]
153	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R180]
154	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R181]
155	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R182]
156	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R183]
157	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R184]
158	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R185]
159	VRS-TV2AB103J	AA		C	Resistor(1/10W 10KΩ ±5%) [R187]
160	VRS-TV2AB390J	AB		C	Resistor(1/10W 39Ω ±5%) [R189]
161	VRS-TV2AB223J	AA		C	Resistor(1/10W 22KΩ ±5%) [R190]
162	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R195]
163	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R198]
164	VRS-TV2AB472J	AA		C	Resistor(1/10W 4.7KΩ ±5%) [R199]
165	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R202]
166	VRS-TV2AB000J	AA		C	Resistor(1/10W 0Ω ±5%) [R203]
167	RCRSZ7008SCZZ	AD		B	Crystal(16.0MHz) [X1]
	(Unit)				
901	DCEKC436BAX01	BV		E	Printer PWB unit
[14] Operation panel PWB unit					
901	DCEKP392BAX01	BL		E	Panel PWB unit
[15] Power supply PWB unit					
1	0KY0L551A0010	AE		C	Bead inductor(BL02RN1) [BEA1]
2	0KY0L551A0010	AE		C	Bead inductor(BL02RN1) [BEA101]
3	0KY0C245Q2240	AN		C	Film capacitor(0.22μF) [C1]
4	0KY0C3M1M6800	AY		C	Electrolytic capacitor(400WV 68μF) [C5]
5	0KY0C1A8S4700	AG		C	Ceramic capacitor(2KWV 47PF) [C8]
6	0KY0C251E4720	AE		C	Film capacitor(50WV 4700PF) [C9]
7	0KY0C251E1030	AE		C	Film capacitor(50WV 0.01μF) [C10]
8	0KY0C151E1010	AE		C	Ceramic capacitor(50WV 100PF) [C11]
9	0KY0C1H8Q3320	AL		C	Ceramic capacitor(3300PF) [C71]
10	0KY0C374D3310	AN		C	Electrolytic capacitor(35WV 330μF) [C101]
11	0KY0C374D3310	AN		C	Electrolytic capacitor(35WV 330μF) [C102]
12	0KY0C162E1040	AF		C	Ceramic capacitor(50WV 0.1μF) [C110]
13	0KY0C1A9Y1020	AG		C	Ceramic capacitor(500WV 1000PF) [C111]
14	0KY0K251A0020	AK		C	Connector(B2P3-VH) [CN1]
15	0KY0K221B0090	AP		C	Connector(09R-FJ) [CN101]
16	0KY0D251A0020	AD		B	Diode(1SS133) [D4]
17	0KY0D466A0600	AE		B	Zener diode(HZS9B2) [D5]
18	0KY0D251A0020	AD		B	Diode(1SS133) [D6]
19	0KY0D251A0020	AD		B	Diode(1SS133) [D7]
20	0KY0D157A0060	AG		B	Diode(ERA15-06) [D10]
21	0KY0D157A0060	AG		B	Diode(ERA15-06) [D11]
22	0KY0D157A0060	AG		B	Diode(ERA15-06) [D12]
23	0KY0D157A0060	AG		B	Diode(ERA15-06) [D13]
24	0KY0D221B0020	AT		B	Diode(YG911S2R) [D101]
25	0KY0D274A0030	AP		B	Diode(2FWJ42) [D102]
26	0KY0D461A3200	AL		B	Zener diode(HZ-30CP) [D104]
27	0KY0K718A2R50	AM		A	Fuse(2.5A 250V) [F1]
28	0KY0K718A2R50	AM		A	Fuse(2.5A 250V) [F2]
29	0KY0MPS029600	AP		C	Heat sink [FG-HS]
30	0KY0M851A0010	AF		C	Fuse holder [FH1]
31	0KY0M851A0010	AF		C	Fuse holder [FH2]
32	0KY0M851A0010	AF		C	Fuse holder [FH3]
33	0KY0M851A0010	AF		C	Fuse holder [FH4]

UX-2700CMIT
FO-2550CMIT

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[15] Power supply PWB unit					
34	0KY0MPH006900	AF		C	Heat sink [HS1]
35	0KY0H153A0020	AP		B	IC(TA76431) [IC101]
36	0KY0H135A5R00	AV		B	IC(PQ05RD11) [IC103]
37	0KY0L113J3330	AR		C	Line filter [L1]
38	0KY0D763A8R00	AN		B	Thermistor(NTH7D8R0) [NTC1]
39	0KY0H723A0010	AR		B	Photo coupler(PC123) [PC1]
40	0KY0T645A0010	AY		B	FET(2SK2717) [Q1]
41	0KY0T358A0040	AG		B	Transistor(2SC1741AS) [Q2]
42	0KY0R163B1050	AE		C	Resistor(1/2W 1MΩ ±5%) [R1]
43	0KY0R153U3340	AC		C	Resistor(1/4W 330KΩ ±5%) [R2]
44	0KY0R153U3340	AC		C	Resistor(1/4W 330KΩ ±5%) [R3]
45	0KY0R153U1530	AC		C	Resistor(1/4W 15KΩ ±5%) [R5]
46	0KY0R153U6810	AC		C	Resistor(1/4W 680Ω ±5%) [R6]
47	0KY0R153U1810	AC		C	Resistor(1/4W 180Ω ±5%) [R7]
48	0KY0R153U3330	AB		C	Resistor(1/4W 33KΩ ±5%) [R8]
49	0KY0R153U1010	AC		C	Resistor(1/4W 100Ω ±5%) [R9]
50	0KY0R153U5620	AC		C	Resistor(1/4W 5.6KΩ ±5%) [R10]
51	0KY0R153U6820	AC		C	Resistor(1/4W 6.8KΩ ±5%) [R11]
52	0KY0R153U1830	AC		C	Resistor(1/4W 18KΩ ±5%) [R12]
53	0KY0R153U6810	AC		C	Resistor(1/4W 680Ω ±5%) [R17]
54	0KY0R153U1000	AC		C	Resistor(1/4W 10Ω ±5%) [R19]
55	0KY0R153U3920	AC		C	Resistor(1/4W 3.9KΩ ±5%) [R102]
56	0KY0R153U3920	AC		C	Resistor(1/4W 3.9KΩ ±5%) [R103]
57	0KY0R153U3920	AC		C	Resistor(1/4W 3.9KΩ ±5%) [R104]
58	0KY0R153U3920	AC		C	Resistor(1/4W 3.9KΩ ±5%) [R105]
59	0KY0R153U3310	AC		C	Resistor(1/4W 330Ω ±5%) [R110]
60	0KY0R153U1020	AB		C	Resistor(1/4W 1KΩ ±5%) [R111]
61	0KY0R153U1530	AC		C	Resistor(1/4W 15KΩ ±5%) [R112]
62	0KY0R153U2220	AC		C	Resistor(1/4W 2.2KΩ ±5%) [R113]
63	0KY0R353U1630	AD		C	Resistor(1/4W 16KΩ ±1%) [R114]
64	0KY0M137A0050	AE		C	Screw [SR1]
65	0KY0M137A0050	AE		C	Screw [SR2]
66	0KY0M137A0050	AE		C	Screw [SR3]
67	0KY0L200C0542	BA		C	Transformer(2C54) [T1]
68	0KY0R854E5020	AK		B	Trimmer potentiometer(1/10W 5KΩ) [VR101]
69	0KY0D754A4710	AK		B	Varistor(ENC471) [Z1]
	(Unit)				
901	RDENT2131AXZZ	BN		E	Power supply PWB unit

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PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
[C]				
CCNW-4772AX01	1-1	AL		C
CGERH2363AX01	6-5	AK		B
CPWBX3021AX05	1-4	CL	N	E
"	10-901	CL	N	E
CROLR2362AX01	5-1	AN		C
[D]				
DCEKC436BAX01	1-3	BV		E
"	13-901	BV		E
DCEKL437BAX03	1-6	CA	N	E
"	11-901	CA	N	E
DCEKP390BAX19	1-7	BR	N	E
"	3-901	BR	N	E
DCEKP390BAX20	1-7	BL	N	E
"	3-901	BL	N	E
DCEKP392BAX01	3-1	BL		E
"	14-901	BL		E
DCEKS396BAX01	1-8	AZ		E
"	12-901	AZ		E
DUNTK307BAXOG	9-1	AZ		E
DUNTK307BAXOW	9-1	AZ		E
[G]				
GCABA2299AXSP	3-2	AR		D
GCABA2299AXSQ	3-2	AR		D
GCABB2300AXSA	5-2	AQ		D
GCABB2300AXSC	5-2	AQ		D
GCABC2301AXSD	1-9	AZ		D
GCABC2301AXSF	1-9	AZ		D
GCABD2302AXSA	1-10	AM		D
GCABD2302AXSC	1-10	AM		D
GCABE2303AXSA	1-11	AL		D
GCABE2303AXSC	1-11	AL		D
GCABF2304AXSA	1-12	AP		D
GCABF2304AXSC	1-12	AP		D
GCABG2305AXSA	1-13	AS		D
GCABG2305AXSC	1-13	AR		D
GCOVA2381AXSA	1-2	BD		D
GCOVA2381AXSC	1-2	BD		D
GCOVA2382AXSB	1-14	AH		C
GCOVA2382AXSC	1-14	AE		C
GDAI-2079AXSA	1-15	AL		C
GDAI-2079AXSC	1-15	AN		C
GLEGG2063AXZZ	1-16	AC		C
[H]				
HPNLH2385AXSM	1-17	AR		D
[J]				
JBTN-2202AXSA	3-3	AG		C
JBTN-2202AXSC	3-3	AG		C
JBTN-2203AXSA	3-4	AF		C
JBTN-2203AXSC	3-4	AF		C
JBTN-2204AXSA	3-5	AD		C
JBTN-2204AXSB	3-5	AD		C
JBTN-2205AXSA	3-6	AD		C
JBTN-2205AXSB	3-6	AD		C
JBTN-2222AXSA	3-7	AE		C
[L]				
LANGF2812AXZZ	1-18	AG		C
LANGF2815AXZZ	4-1	AE		C
LBNDJ2008SCZZ	1-19	AA		C
LBRC-2006AXZZ	8-35	AK		C
LBSHP2095AXZZ	8-36	AD		C
LBSHP2096AXZZ	4-2	AK		C
LFRM-2188AXZZ	7-1	AP		C
LFRM-2189AXSA	5-3	AR		C
LFRM-2189AXSC	5-3	AR		C
LFRM-2190AXZZ	1-20	AX		C
LFRM-2192AXZZ	8-37	AL		C
LHLDZ2165AXZZ	5-4	AN		C
LHLDZ2166AXZZ	1-21	AD		C
LHLDZ2168AXZZ	8-38	AS		C
LHLDZ2169AXZZ	8-39	AD		C
LHLDZ2171AXSA	1-22	AE		C
LHLDZ2171AXSC	1-22	AE		C
LPLTG2707XHZZ	4-3	AE		C
LPLTM2917AXZZ	4-4	AH		C
LPLTM2919AXZZ	6-1	AN		C
LPLTM2922AXZZ	7-2	AF		C
LPLTM2923AXZA	1-23	AM		C
LPLTM2924AXZZ	5-5	AQ		C
LPLTP2884AXZZ	5-6	AP		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
LPLTP2888AXSC	5-7	AP		C
LPLTP2888AXSG	5-7	AL		C
LPLTP2889AXSC	1-24	AK		C
LPLTP2889AXSD	1-24	AN		C
LPLTP2890AXSC	1-25	AZ		C
LPLTP2890AXSD	1-25	AG		C
LPLTP2916AXZZ	4-5	AE		C
LPLTP2918AXZZ	6-2	AW		C
LPLTP2925AXSA	1-26	AQ		C
LPLTP2925AXSC	1-26	AQ		C
LPLTP2926AXSA	1-27	AM		C
LPLTP2926AXSC	1-27	AM		C
LPLTP2930AXZZ	6-3	AE		C
LPLTP2931AXZZ	6-4	AE		C
LPLTP2932AXSA	1-28	AK		C
"	9-5	AK		C
LX-BZ2138XHZZ	2-B1	AB		C
"	8-B1	AB		C
LX-BZ2222AXZZ	1-B2	AC		C
"	4-B2	AC		C
"	5-B2	AC		C
LX-BZ2235AXZZ	6-B15	AA		C
LX-WZ2229AXZZ	8-W1	AC		C
LX-WZ2230AXZZ	8-W2	AC		C
[M]				
MLEVP2271AXSA	4-6	AH		C
MLEVP2271AXSC	4-6	AH		C
MLEVP2273AXZZ	8-40	AH		C
MLEVP2274AXZZ	8-41	AD		C
MLEVP2275AXZZ	5-8	AE		C
MLEVP2276AXZZ	5-9	AE		C
MLEVP2277AXZZ	5-10	AE		C
MLEVP2278AXSA	1-29	AF		C
MSPRC2735XHZZ	8-42	AC		C
MSPRC2832AXZZ	2-1	AC		C
MSPRC2969AXZZ	6-6	AD		C
MSPRC2973AXZZ	1-30	AC		C
MSPRC2995AXFJ	5-12	AC		C
MSPRC3007AXZZ	5-11	AC		C
MSPRC3008AXZZ	8-43	AC		C
MSPRC3009AXZZ	4-8	AB		C
MSPRC3010AXZZ	4-7	AE		C
MSPRD2975AXZZ	8-44	AC		C
MSPRD2998AXZZ	5-13	AC		C
MSPRD3004AXZZ	5-14	AB		C
MSPRP2812SCZZ	4-9	AE		C
MSPRP3003AXZZ	4-10	AB		C
MSPRT2923AXFJ	4-11	AC		C
MSPRT2932AXFJ	5-15	AC		C
[N]				
NBLTK2056AXZZ	8-45	AF		C
NBRGP2141AXZZ	6-7	AC		C
NGERH2275XHZZ	6-8	AC		C
NGERH2278XHZZ	8-46	AC		C
NGERH2279XHZZ	8-47	AC		C
NGERH2365AXZZ	5-16	AD		C
NGERH2366AXZZ	5-17	AD		C
NGERH2393AXZZ	7-3	AD		C
NGERH2394AXZZ	7-4	AD		C
NGERH2395AXZZ	7-6	AD		C
NGERH2396AXZZ	8-48	AD		C
NGERH2398AXZZ	8-49	AD		C
NGERH2399AXZZ	8-50	AD		C
NGERH2400AXZZ	8-51	AD		C
NGERH2401AXZZ	5-18	AF		C
NGERH2403AXZZ	4-12	AD		C
NGERH2318XHZZ	2-2	AD		C
NROLM2389AXZZ	1-47	AD		C
NROLP2334AXZZ	4-13	AE		C
NROLP2382AXZZ	8-52	AC		C
NROLR2333XHZZ	6-9	AP		C
NROLR2365AXZZ	6-10	AV		C
NROLR2379AXZZ	4-14	AZ		C
NROLR2380AXZZ	8-53	AX		C
NROLR2381AXZZ	8-54	AH		C
NSFTM2268AXZZ	5-19	AE		C
NSFTZ2257AXZZ	4-15	AE		C
[P]				
PCAPH2021AXZZ	1-31	AD		C
PCASZ2034AXSA	1-32	AE		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
PCASZ2034AXSC	1-32	AE		C
PCOVA2115AXSA	1-33	AL		C
PCOV2118AXZZ	8-55	AE		C
PFLT-2015AXZZ	1-34	AG		C
PGIDM2508AXZZ	4-16	AU		C
PGIDM2509AXSA	2-4	AR		C
PGIDM2509AXSC	2-4	AR		C
PGIDM2510AXSA	2-5	AE		C
PGIDM2510AXSC	2-5	AE		C
PGIDM2511AXSA	2-6	AE		C
PGIDM2511AXSC	2-6	AE		C
PGIDM2512AXZZ	5-20	AS		C
PGUMM2152AXZZ	8-56	AD		C
PHOP-2097AXSA	2-7	AK		C
PHOP-2097AXSC	2-7	AK		C
PHOP-2098AXSA	5-21	AG		C
PHOP-2098AXSC	5-21	AG		C
PHOP-2099AXSA	5-22	AG		C
PHOP-2099AXSC	5-22	AG		C
PSEL-2015SCZZ	5-23	AB		C
PSHEZ2393AXZZ	5-24	AH		C
PSHEZ2342AXZZ	5-25	AC		C
PSHEZ2344AXZZ	5-26	AD		C
PSHEZ2345AXYE	1-35	AG	N	C
PSHEZ2356AXYZ	1-36	AC		C
PSHEZ2357AXZZ	5-27	AC		C
PSHEZ2367AXYZ	3-8	AE		C
PSHEZ2381AXZZ	1-40	AE		C
[Q]				
QACCV662AXHZZ	1-39	AZ		B
QCNCM2401SCOF	10-213	AB		C
QCNCM2482SC2H	10-215	AG		C
"	13-66	AG		C
QCNCM2482SC2J	10-214	AE		C
QCNCM2499SCOD	10-210	AG		C
QCNCM2499SCOH	10-216	AE		C
QCNCM2499SC1D	10-209	AG		C
QCNCM7014SCOB	10-217	AD		C
QCNCM7014SCOD	13-63	AB		C
QCNCM7014SCOE	13-62	AB		C
QCNCM7014SCOF	10-211	AB		C
QCNCM7014SC1B	10-208	AD		C
QCNCM704FAF02	12-7	AC		C
QCNCW0946FCZZ	10-212	AH		C
QCNCW2500SCOD	11-46	AG		C
QCNCW2500SC1D	11-45	AG		C
QCNCW2556SC3B	13-64	AG		C
"	13-65	AG		C
QCNW-3975AXGY	9-22	AH		C
QCNW-3976XHOG	9-6	AT		C
QCNW-3976XHOW	9-6	AK		C
QCNW-4775AXZZ	1-43	AH		C
QCNW-4777AXZZ	1-41	AU		C
"	2-8	AU		C
"	3-9	AU		C
QCNW-4778AXZZ	1-42	AZ		C
"	8-59	AZ		C
QCNW-4806AXZZ	1-44	AD		C
"	11-3	AD		C
QCNW-4807AXZZ	1-37	AE		C
"	8-57	AE		C
QCNW-4827AXZZ	6-12	AR		C
QCNW-4855AXZZ	6-11	AD		C
QJAKZ2046SCFB	11-47	AH		C
QJAKZ2065SC0D	11-44	AG		C
QPLGJ2019XHZZ	9-23	AN		C
QSOCZ2051SC32	10-264	AC		C
"	10-266	AC		C
QSOCZ2065SCZZ	10-207	AE		C
QSW-Z2206SCZZ	11-122	AH		B
[R]				
RC-EZ107BRC1C	10-3	AH		C
RC-FZ2023SCZZ	11-10	AF		C
RC-FZ3028SCZZ	11-9	AG		C
RCILZ2120SCZZ	11-60	AD		C
RCORF2063XHZZ	1-45	AF		B
RCORF2064XHZZ	1-48	AF		B
"	2-9	AF		B
RCORF2096FFZZ	1-46	AD		B
RCORF2103XHZZ	1-49	AF		B

UX-2700CMIT
FO-2550CMIT

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RCRSB0297AFZZ	10-638	AD		B
RCRSQ2109SCZZ	10-640	AL		B
RCRSQ2123AXZZ	10-637	AL		B
RCRSQ2124AXZZ	10-639	AL		B
RCRSZ1017LCZZ	10-636	AF		B
RCRSZ7008SCZZ	13-167	AD		B
RDENT2131AXZZ	1-38	BN		E
"	15-901	BN		E
RFILN2027XHZZ	11-55	AC		C
"	11-56	AC		C
"	11-57	AC		C
"	11-58	AC		C
"	11-59	AC		C
RH-DX2007SCZZ	11-121	AC		B
RMOTZ2137AXZZ	8-34	AZ		B
RMOTZ2144AXZZ	7-5	AZ		B
RR-SZ3013SCZZ	13-88	AC		C
"	13-89	AC		C
"	13-92	AC		C
"	13-93	AC		C
RRLYZ3427SCZZ	11-43	AN		B
RTRN12142XHZZ	11-123	AR		B
RUNTZ2025SCZZ	6-13	BN		B
[S]				
SPAKA220AAXZZ	9-7	AF		D
SPAKA221AAXZZ	9-8	AF		D
SPAKA222AAXZZ	9-9	AG		D
SPAKA223AAXZZ	9-10	AF		D
SPAKA393AAXZZ	9-4	AC		C
SPAKA417AAXZZ	9-21	AF		D
SPAKC026BAXZZ	9-11	AV	N	D
SPAKC027BAXZZ	9-11	AV	N	D
SPAKP4381AXZZ	9-12	AG		D
SSAKA1240QCZZ	9-14	AA		D
SSAKA2008AXZZ	9-13	AA		D
SSAKA3001CCZZ	9-2	AA		D
SSAKA3340QCZZ	9-3	AB		D
[T]				
TCADZ2775AXZZ	9-15	AG		D
TCADZ2776AXZZ	9-17	AD		D
TINSI3948AXZZ	9-18	AK	N	D
TLABH235AAXZA	9-20	AB	N	D
TLABH235AAXZZ	9-20	AB	N	D
TLABH4496AXSA	9-19	AC	N	D
TLABH4496AXSC	9-19	AC		D
TLABN1235CCZZ	10-642	AA		D
TLABS4884AXZZ	1-5	AB	N	D
TLABS4885AXZZ	1-5	AB	N	D
[U]				
UBATL2061SCZZ	10-1	AN		B
UDSKA2022SCZZ	9-16	AN	N	E
[V]				
VCCCTV1HH100D	10-108	AA		C
"	10-112	AA		C
VCCCTV1HH101J	13-24	AA		C
"	13-33	AA		C
VCCCTV1HH102J	13-13	AA		C
"	13-22	AA		C
"	13-23	AA		C
"	13-25	AA		C
"	13-29	AA		C
"	13-31	AA		C
"	13-32	AA		C
"	13-34	AA		C
"	13-35	AA		C
"	13-41	AA		C
"	13-42	AA		C
"	13-44	AA		C
"	13-45	AA		C
"	13-46	AA		C
"	13-53	AA		C
"	13-55	AA		C
VCCCTV1HH120J	10-77	AA		C
"	10-78	AA		C
VCCCTV1HH150J	13-37	AA		C
"	13-52	AA		C
VCCCTV1HH151J	10-154	AA		C
"	10-155	AA		C
"	10-156	AA		C
"	10-157	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCCCTV1HH151J	10-176	AA		C
"	10-177	AA		C
"	10-178	AA		C
"	10-179	AA		C
"	10-206	AA		C
VCCCTV1HH180J	10-55	AA		C
"	10-56	AA		C
VCCCTV1HH220J	13-38	AA		C
"	13-39	AA		C
VCCCTV1HH330J	10-23	AA		C
VCCCTV1HH331J	13-7	AA		C
"	13-14	AA		C
VCCCTV1HH470J	10-131	AA		C
VCCCTV1HH471J	13-8	AA		C
"	13-9	AA		C
VCCCTV1HH5R0D	10-37	AA		C
"	10-38	AA		C
"	10-66	AA		C
"	10-67	AA		C
"	10-145	AA		C
VCCCTV1HH560J	13-56	AA		C
"	13-57	AA		C
"	13-58	AA		C
"	13-59	AA		C
VCCCTV1HH561J	13-26	AA		C
"	13-27	AA		C
"	13-48	AA		C
"	13-49	AA		C
VCCCTV1HH820J	10-159	AA		C
"	10-160	AA		C
"	10-161	AA		C
"	10-162	AA		C
"	10-180	AA		C
"	10-181	AA		C
"	10-182	AA		C
"	10-183	AA		C
"	10-189	AA		C
VCCSTV1HL102J	10-76	AA		C
"	10-96	AA		C
VCCSTV1HL121J	10-150	AC		C
"	10-151	AC		C
"	10-153	AC		C
VCCSTV1HL331J	10-110	AA		C
"	10-146	AA		C
"	10-167	AA		C
"	10-168	AA		C
VCCSTV1HL391J	10-89	AA		C
VCCSTV1HL471J	10-74	AC		C
"	10-152	AC		C
VCCSTV1HL681J	10-98	AB		C
VCEAEA1CW106M	12-1	AC		C
"	12-2	AC		C
VCEAGA1CW107M	13-4	AC		C
VCEAGA1EW107M	10-2	AB		C
"	10-4	AB		C
"	10-10	AB		C
"	11-8	AB		C
VCEAGA1EW226M	10-7	AB		C
VCEAGA1EW476M	11-4	AA		C
"	11-12	AA		C
VCEAGA1HW105M	10-8	AB		C
VCEAGA1HW106M	11-7	AA		C
VCEAGA1HW107M	10-5	AA		C
"	10-6	AA		C
"	10-13	AA		C
VCEAGA1HW225M	11-6	AA		C
VCEAGA1HW226M	11-5	AB		C
VCEAGA1HW336M	10-12	AB		C
VCEAGA1HW475M	10-9	AA		C
"	11-11	AA		C
"	11-13	AA		C
VCEAGA1HW476M	10-11	AB		C
VCEAGA1VW107M	13-1	AB		C
"	13-5	AB		C
VCEAGU1VW107M	13-2	AB		C
VCEAZU1VJ108M	13-3	AG		C
VCKYTQ1HB153K	11-15	AB		C
VCKYTQ1HB222K	11-33	AA		C
VCKYTQ1HB683K	11-16	AB		C
"	11-23	AB		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCKYTQ1HF104Z	10-18	AA		C
"	10-24	AA		C
"	10-94	AA		C
"	10-97	AA		C
VCKYTQ1CF105Z	10-17	AB		C
"	10-21	AB		C
"	10-42	AB		C
"	10-43	AB		C
"	10-44	AB		C
"	10-45	AB		C
"	10-50	AB		C
"	10-51	AB		C
"	10-68	AB		C
"	10-70	AB		C
"	10-72	AB		C
"	10-73	AB		C
"	10-80	AB		C
"	10-81	AB		C
"	10-84	AB		C
"	10-85	AB		C
"	10-86	AB		C
"	10-90	AB		C
"	10-91	AB		C
"	10-92	AB		C
"	10-99	AB		C
"	10-100	AB		C
"	10-107	AB		C
"	10-115	AB		C
"	10-118	AB		C
"	10-126	AB		C
"	10-128	AB		C
"	10-147	AB		C
"	10-148	AB		C
"	10-149	AB		C
"	11-30	AB		C
"	11-31	AB		C
VCKYTQ1CF225Z	10-88	AD		C
"	10-102	AD		C
"	10-113	AD		C
"	13-10	AD		C
"	13-18	AD		C
"	13-19	AD		C
"	13-47	AD		C
VCKYTQ1EB104K	10-62	AA		C
"	10-63	AA		C
"	10-64	AA		C
"	10-65	AA		C
"	11-14	AA		C
"	11-18	AA		C
"	12-6	AA		C
VCKYTQ1EF104Z	10-19	AA		C
"	10-20	AA		C
"	10-22	AA		C
"	10-25	AA		C
"	10-26	AA		C
"	10-36	AA		C
"	10-39	AA		C
"	10-40	AA		C
"	10-41	AA		C
"	10-46	AA		C
"	10-47	AA		C
"	10-48	AA		C
"	10-53	AA		C
"	10-58	AA		C
"	10-59	AA		C
"	10-60	AA		C
"	10-61	AA		C
"	10-75	AA		C
"	10-79	AA		C
"	10-82	AA		C
"	10-87	AA		C
"	10-93	AA		C
"	10-101	AA		C
"	10-106	AA		C
"	10-111	AA		C
"	10-114	AA		C
"	10-116	AA		C
"	10-117	AA		C
"	10-119	AA		C
"	10-120	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCKYTV1EF104Z	10-121	AA		C
"	10-122	AA		C
"	10-123	AA		C
"	10-124	AA		C
"	10-127	AA		C
"	10-129	AA		C
"	10-130	AA		C
"	10-169	AA		C
"	10-170	AA		C
"	10-171	AA		C
"	10-172	AA		C
"	10-173	AA		C
"	10-174	AA		C
"	10-175	AA		C
"	10-184	AA		C
"	10-185	AA		C
"	10-186	AA		C
"	10-187	AA		C
"	11-19	AA		C
"	11-20	AA		C
"	11-21	AA		C
"	11-26	AA		C
"	11-27	AA		C
"	11-32	AA		C
"	11-38	AA		C
"	12-3	AA		C
"	12-4	AA		C
VCKYTV1HB102K	10-14	AA		C
"	10-29	AA		C
"	10-30	AA		C
"	10-31	AA		C
"	10-32	AA		C
"	10-33	AA		C
"	10-49	AA		C
"	10-83	AA		C
"	10-125	AA		C
"	10-132	AA		C
"	10-133	AA		C
"	10-134	AA		C
"	10-135	AA		C
"	10-136	AA		C
"	10-137	AA		C
"	10-138	AA		C
"	10-139	AA		C
"	10-140	AA		C
"	10-141	AA		C
"	10-142	AA		C
"	10-143	AA		C
"	10-144	AA		C
"	10-158	AA		C
"	10-163	AA		C
"	10-164	AA		C
"	10-165	AA		C
"	10-166	AA		C
"	10-188	AA		C
"	10-199	AA		C
"	10-200	AA		C
"	10-204	AA		C
"	10-205	AA		C
"	11-25	AA		C
"	11-37	AA		C
VCKYTV1HB103K	10-28	AB		C
"	11-24	AB		C
"	11-28	AB		C
"	13-12	AB		C
VCKYTV1HB121K	12-5	AA		C
VCKYTV1HB182K	11-40	AA		C
VCKYTV1HB221K	11-17	AA		C
"	11-35	AA		C
VCKYTV1HB222K	10-15	AA		C
"	10-16	AA		C
"	10-34	AA		C
"	10-35	AA		C
"	10-52	AA		C
"	10-54	AA		C
"	10-57	AA		C
"	10-69	AA		C
"	10-71	AA		C
"	10-95	AA		C
"	10-103	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCKYTV1HB222K	10-104	AA		C
"	10-105	AA		C
"	10-109	AA		C
"	11-39	AA		C
"	11-42	AA		C
VCKYTV1HB223K	11-29	AA		C
VCKYTV1HB471K	11-22	AA		C
VCKYTV1HB472K	10-27	AA		C
"	10-193	AA		C
"	10-201	AA		C
"	10-202	AA		C
"	10-203	AA		C
"	11-34	AA		C
"	11-41	AA		C
"	13-43	AA		C
VCKYTV1HB821K	11-36	AA		C
VCKYTV1HF103Z	13-36	AA		C
"	13-51	AA		C
VCKYTV1HF104Z	13-6	AA		C
"	13-11	AA		C
"	13-15	AA		C
"	13-16	AA		C
"	13-17	AA		C
"	13-20	AA		C
"	13-21	AA		C
"	13-28	AA		C
"	13-30	AA		C
"	13-40	AA		C
"	13-50	AA		C
"	13-54	AA		C
"	13-60	AA		C
"	13-61	AA		C
VHDDAP202U/-1	10-220	AB		B
VHDDSS131/-1	11-48	AA		B
"	11-51	AA		B
VHDERA81004-1	13-67	AE		B
"	13-68	AE		B
"	13-69	AE		B
"	13-70	AE		B
VHDHRW0502A-1	10-221	AD		B
"	10-222	AD		B
"	10-223	AD		B
"	10-224	AD		B
"	10-225	AD		B
"	10-226	AD		B
"	10-227	AD		B
"	10-228	AD		B
"	10-229	AD		B
"	10-230	AD		B
"	10-231	AD		B
"	10-232	AD		B
"	10-233	AD		B
"	10-234	AD		B
"	10-235	AD		B
"	10-236	AD		B
"	10-237	AD		B
"	10-238	AD		B
"	10-239	AD		B
"	10-240	AD		B
"	10-241	AD		B
"	10-242	AD		B
"	10-243	AD		B
"	10-244	AD		B
"	10-245	AD		B
"	10-246	AD		B
VHD1SS133/-1	11-49	AA		B
"	11-50	AA		B
VHD1SS355/-1	10-218	AB		B
"	10-219	AB		B
"	12-10	AB		B
VHEH22A1///-1	11-125	AC		B
"	11-126	AC		B
VHEMTJ2R4B-1	11-132	AB		B
"	11-133	AB		B
VHEMTJ300B-1	11-130	AA		B
"	11-131	AA		B
VHEMTJ4R7B-1	11-127	AC		B
"	11-128	AC		B
VHEMTJ6R8B-1	11-129	AC		B
VHERD22FB3/-1	10-641	AC		B

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VHIAD8051//1	10-248	AN		B
VHIHD74LS08-1	10-251	AD		B
VHIHECF4066BF	10-250	AF		B
"	10-254	AF		B
VHIHY18164CJ6	10-268	AY		B
"	10-273	AY		B
VHILB1845//1	13-78	AY		B
VHILC821040N4	10-253	BD		B
VHILZ9FJ49/-1	10-257	AV		B
VHIL6451///-1	13-81	AX		B
"	13-83	AX		B
VHIMC14053DR2	10-255	AG		B
VHINJM2113M-1	10-276	AG		B
VHINJM2902M-1	10-260	AF		B
"	10-278	AF		B
VHINJM2904M-1	11-52	AE		B
"	11-53	AE		B
"	11-54	AE		B
VHINJM311M/-1	12-12	AL		B
VHINJM324M/-1	12-11	AH		B
VHINJU6355E-1	10-277	AM		B
VHIPST596CMT1	10-279	AF		B
VHIR144AFXL/1	10-263	BM		B
VHISH7040//2	10-258	BD		B
VHISN74HC04NS	10-262	AC		B
VHISN74HC14NS	10-259	AE		B
VHISN74HC164N	10-261	AG		B
VHISN74LS244N	10-271	AS		B
"	10-272	AS		B
VHISN74LS245N	10-270	AR		B
VHISTA471A/-1	13-79	AK		B
VHITC190G04AF	13-82	BD		B
VHITC7W74FU-1	10-275	AD		B
VHITMP87PH47U	13-84	AZ		B
VHIULN2003AN/	10-249	AE		B
VHIW24257S7LL	13-80	AP		B
VHI27080FAKOG	10-267	BQ	N	B
VHI27080FAK1G	10-265	BQ	N	B
VHI43257BG70L	10-269	AR		B
"	10-274	AR		B
VHI74HCU04S-1	10-252	AF		B
"	10-256	AF		B
VHPGL480//1	12-9	AD		B
VHPPD410PI/-1	12-8	AE		B
VHPSG206S//1	11-66	AG		B
"	13-85	AG		B
VHPTLP521-1BL	11-61	AE		B
"	11-65	AE		B
VHPTLP627//1	11-62	AH		B
"	11-63	AH		B
"	11-64	AH		B
VHVDSS301L/-U	11-124	AF		B
VHVICPS07//1	10-247	AA		B
"	13-71	AA		B
"	13-72	AA		B
VHVRA501PV6-1	11-1	AE		B
"	11-2	AE		B
VRD-HT2EY100J	10-296	AA		C
VRD-HT2HY223J	11-76	AA		C
VRS-HT3AAR75J	13-90	AC		C
"	13-91	AC		C
VRS-HT3AA5R1J	10-293	AB		C
"	10-294	AB		C
VRS-HT3AA750J	10-295	AA		C
VRS-TP2BD150J	11-103	AA		C
VRS-TP2BD301J	11-117	AA		C
VRS-TP2BD360J	11-119	AA		C
VRS-TQ2BB000J	10-282	AA		C
"	10-332	AA		C
"	10-333	AA		C
VRS-TQ2BB200J	10-483	AA		C
VRS-TQ2BB561J	10-606	AA		C
VRS-TS2AD000J	11-80	AA		C
"	11-97	AA		C
"	11-115	AA		C
"	11-120	AA		C
VRS-TS2AD102J	11-114	AA		C
VRS-TS2AD103J	11-81	AA		C
"	11-108	AA		C
"	11-116	AA		C

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PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-TS2AD104J	11-88	AA		C
VRS-TS2AD113J	11-82	AA		C
VRS-TS2AD124J	11-105	AA		C
VRS-TS2AD133J	11-104	AA		C
"	11-118	AA		C
VRS-TS2AD134J	11-112	AA		C
VRS-TS2AD151J	11-110	AA		C
VRS-TS2AD152J	11-107	AA		C
VRS-TS2AD203J	11-86	AA		C
"	11-99	AA		C
"	11-101	AA		C
"	11-113	AA		C
VRS-TS2AD221J	11-89	AA		C
"	11-90	AA		C
"	11-91	AA		C
VRS-TS2AD223J	11-79	AA		C
"	11-84	AA		C
"	11-98	AA		C
VRS-TS2AD273J	11-106	AA		C
VRS-TS2AD303J	11-100	AA		C
VRS-TS2AD331J	11-83	AA		C
VRS-TS2AD332J	11-109	AA		C
VRS-TS2AD333J	11-77	AA		C
"	11-85	AA		C
"	11-95	AA		C
VRS-TS2AD471J	11-87	AA		C
"	11-92	AA		C
VRS-TS2AD621J	11-78	AA		C
"	11-93	AA		C
VRS-TS2AD683J	11-94	AA		C
"	11-102	AA		C
VRS-TS2AD822J	11-96	AA		C
"	11-111	AA		C
VRS-TV2AB000J	10-190	AA		C
"	10-191	AA		C
"	10-192	AA		C
"	10-194	AA		C
"	10-195	AA		C
"	10-196	AA		C
"	10-197	AA		C
"	10-198	AA		C
"	10-283	AA		C
"	10-284	AA		C
"	10-285	AA		C
"	10-323	AA		C
"	10-330	AA		C
"	10-352	AA		C
"	10-359	AA		C
"	10-382	AA		C
"	10-401	AA		C
"	10-420	AA		C
"	10-421	AA		C
"	10-422	AA		C
"	10-423	AA		C
"	10-451	AA		C
"	10-472	AA		C
"	10-473	AA		C
"	10-474	AA		C
"	10-499	AA		C
"	10-516	AA		C
"	10-519	AA		C
"	10-548	AA		C
"	10-549	AA		C
"	10-614	AA		C
"	10-615	AA		C
"	10-620	AA		C
"	10-621	AA		C
"	10-622	AA		C
"	10-623	AA		C
"	10-630	AA		C
"	10-631	AA		C
"	10-632	AA		C
"	10-633	AA		C
"	10-634	AA		C
"	10-635	AA		C
"	13-73	AA		C
"	13-74	AA		C
"	13-75	AA		C
"	13-76	AA		C
"	13-77	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-TV2AB000J	13-162	AA		C
"	13-165	AA		C
"	13-166	AA		C
VRS-TV2AB100J	10-484	AD		C
"	10-487	AD		C
"	10-502	AD		C
"	10-503	AD		C
"	10-504	AD		C
"	10-505	AD		C
"	10-506	AD		C
"	10-508	AD		C
"	10-510	AD		C
"	10-512	AD		C
"	10-514	AD		C
"	10-528	AD		C
"	10-529	AD		C
"	10-550	AD		C
"	10-551	AD		C
"	10-552	AD		C
"	10-553	AD		C
"	10-554	AD		C
"	10-555	AD		C
"	10-556	AD		C
"	10-557	AD		C
"	10-619	AD		C
VRS-TV2AB101J	10-303	AA		C
"	10-304	AA		C
"	10-305	AA		C
"	10-306	AA		C
"	10-307	AA		C
"	10-308	AA		C
"	10-309	AA		C
"	10-310	AA		C
"	10-311	AA		C
"	10-331	AA		C
"	10-338	AA		C
"	10-339	AA		C
"	10-340	AA		C
"	10-341	AA		C
"	10-342	AA		C
"	10-343	AA		C
"	10-344	AA		C
"	10-345	AA		C
"	10-361	AA		C
"	10-362	AA		C
"	10-371	AA		C
"	10-386	AA		C
"	10-390	AA		C
"	10-391	AA		C
"	10-411	AA		C
"	10-412	AA		C
"	10-413	AA		C
"	10-414	AA		C
"	10-417	AA		C
"	10-490	AA		C
"	10-493	AA		C
"	10-494	AA		C
"	10-532	AA		C
"	10-537	AA		C
"	10-539	AA		C
"	10-547	AA		C
"	10-585	AA		C
"	10-586	AA		C
"	10-587	AA		C
"	10-613	AA		C
"	10-624	AA		C
VRS-TV2AB102J	10-335	AA		C
"	10-354	AA		C
"	10-365	AA		C
"	10-405	AA		C
"	10-435	AA		C
"	10-467	AA		C
"	10-469	AA		C
"	10-500	AA		C
"	10-517	AA		C
"	13-98	AA		C
"	13-110	AA		C
VRS-TV2AB103J	10-312	AA		C
"	10-316	AA		C
"	10-319	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-TV2AB103J	10-320	AA		C
"	10-336	AA		C
"	10-346	AA		C
"	10-347	AA		C
"	10-348	AA		C
"	10-355	AA		C
"	10-366	AA		C
"	10-367	AA		C
"	10-368	AA		C
"	10-369	AA		C
"	10-370	AA		C
"	10-375	AA		C
"	10-376	AA		C
"	10-380	AA		C
"	10-384	AA		C
"	10-385	AA		C
"	10-387	AA		C
"	10-388	AA		C
"	10-389	AA		C
"	10-394	AA		C
"	10-396	AA		C
"	10-397	AA		C
"	10-398	AA		C
"	10-399	AA		C
"	10-406	AA		C
"	10-407	AA		C
"	10-408	AA		C
"	10-409	AA		C
"	10-410	AA		C
"	10-415	AA		C
"	10-416	AA		C
"	10-419	AA		C
"	10-425	AA		C
"	10-426	AA		C
"	10-430	AA		C
"	10-434	AA		C
"	10-436	AA		C
"	10-440	AA		C
"	10-441	AA		C
"	10-443	AA		C
"	10-445	AA		C
"	10-446	AA		C
"	10-447	AA		C
"	10-448	AA		C
"	10-449	AA		C
"	10-450	AA		C
"	10-452	AA		C
"	10-453	AA		C
"	10-454	AA		C
"	10-455	AA		C
"	10-456	AA		C
"	10-457	AA		C
"	10-461	AA		C
"	10-462	AA		C
"	10-463	AA		C
"	10-464	AA		C
"	10-465	AA		C
"	10-466	AA		C
"	10-488	AA		C
"	10-489	AA		C
"	10-491	AA		C
"	10-492	AA		C
"	10-495	AA		C
"	10-496	AA		C
"	10-498	AA		C
"	10-501	AA		C
"	10-509	AA		C
"	10-527	AA		C
"	10-625	AA		C
"	10-626	AA		C
"	10-627	AA		C
"	10-628	AA		C
"	10-629	AA		C
"	12-14	AA		C
"	12-15	AA		C
"	12-18	AA		C
"	12-21	AA		C
"	12-22	AA		C
"	12-24	AA		C
"	13-116	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-TV2AB103J	13-129	AA		C
"	13-140	AA		C
"	13-159	AA		C
VRS-TV2AB104J	10-364	AA		C
"	10-428	AA		C
"	10-433	AA		C
"	10-497	AA		C
"	12-29	AA		C
VRS-TV2AB105J	10-360	AA		C
"	10-404	AA		C
"	13-143	AA		C
VRS-TV2AB121J	10-562	AA		C
"	10-611	AA		C
VRS-TV2AB122J	10-588	AA		C
"	10-589	AA		C
"	10-590	AA		C
"	10-591	AA		C
"	10-592	AA		C
"	10-593	AA		C
"	10-594	AA		C
"	10-595	AA		C
"	10-596	AA		C
"	10-597	AA		C
"	10-598	AA		C
"	10-599	AA		C
"	10-600	AA		C
"	10-601	AA		C
"	10-602	AA		C
"	10-603	AA		C
"	10-604	AA		C
"	10-605	AA		C
VRS-TV2AB124J	12-23	AA		C
VRS-TV2AB133J	10-479	AA		C
VRS-TV2AB151J	10-618	AA		C
"	12-27	AA		C
"	12-28	AA		C
VRS-TV2AB152J	10-322	AB		C
"	10-477	AB		C
"	13-101	AB		C
"	13-103	AB		C
"	13-105	AB		C
"	13-108	AB		C
VRS-TV2AB154J	10-515	AB		C
VRS-TV2AB182J	10-326	AA		C
"	10-329	AA		C
VRS-TV2AB183J	10-378	AD		C
VRS-TV2AB201J	10-324	AA		C
"	10-327	AA		C
"	10-358	AA		C
"	10-372	AA		C
VRS-TV2AB203J	10-334	AA		C
"	10-337	AA		C
"	10-363	AA		C
VRS-TV2AB221J	10-617	AA		C
VRS-TV2AB222J	12-17	AA		C
"	12-19	AA		C
"	13-102	AA		C
"	13-104	AA		C
"	13-106	AA		C
"	13-107	AA		C
VRS-TV2AB223J	13-96	AA		C
"	13-120	AA		C
"	13-161	AA		C
VRS-TV2AB271J	10-297	AA		C
"	10-298	AA		C
"	10-299	AA		C
"	10-300	AA		C
"	10-301	AA		C
"	10-302	AA		C
"	10-350	AA		C
"	10-351	AA		C
"	10-353	AA		C
"	10-373	AA		C
"	10-374	AA		C
"	10-377	AA		C
"	10-429	AA		C
"	10-470	AA		C
"	10-471	AA		C
"	10-476	AA		C
"	10-511	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-TV2AB271J	10-513	AA		C
"	10-520	AA		C
"	10-521	AA		C
VRS-TV2AB302J	10-349	AA		C
"	10-379	AA		C
"	10-381	AA		C
"	10-395	AA		C
"	10-403	AA		C
VRS-TV2AB330J	10-321	AD		C
"	10-458	AD		C
"	10-459	AD		C
"	10-460	AD		C
"	10-530	AD		C
"	10-531	AD		C
"	10-533	AD		C
"	10-534	AD		C
"	10-535	AD		C
"	10-536	AD		C
"	10-538	AD		C
"	10-540	AD		C
"	10-541	AD		C
"	10-542	AD		C
"	10-543	AD		C
"	10-544	AD		C
"	10-545	AD		C
"	10-546	AD		C
"	10-558	AD		C
"	10-559	AD		C
"	10-560	AD		C
"	10-561	AD		C
"	10-581	AD		C
"	10-582	AD		C
"	10-583	AD		C
"	10-584	AD		C
"	10-607	AD		C
"	10-608	AD		C
"	10-609	AD		C
"	10-610	AD		C
"	10-612	AD		C
VRS-TV2AB332J	10-393	AA		C
"	10-481	AA		C
"	12-30	AA		C
VRS-TV2AB333J	10-325	AD		C
"	10-328	AD		C
"	10-400	AD		C
"	10-418	AD		C
"	10-431	AD		C
"	10-438	AD		C
"	10-439	AD		C
"	10-475	AD		C
VRS-TV2AB363J	10-356	AA		C
VRS-TV2AB390J	10-424	AB		C
"	13-97	AB		C
"	13-111	AB		C
"	13-115	AB		C
"	13-117	AB		C
"	13-121	AB		C
"	13-124	AB		C
"	13-127	AB		C
"	13-128	AB		C
"	13-135	AB		C
"	13-137	AB		C
"	13-138	AB		C
"	13-139	AB		C
"	13-141	AB		C
"	13-144	AB		C
"	13-153	AB		C
"	13-154	AB		C
"	13-155	AB		C
"	13-156	AB		C
"	13-157	AB		C
"	13-158	AB		C
"	13-160	AB		C
VRS-TV2AB393J	10-357	AD		C
VRS-TV2AB434J	12-16	AA		C
"	12-20	AA		C
"	12-25	AA		C
VRS-TV2AB470J	10-563	AA		C
"	10-564	AA		C
"	10-565	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-TV2AB470J	10-566	AA		C
"	10-567	AA		C
"	10-568	AA		C
"	10-569	AA		C
"	10-570	AA		C
"	10-571	AA		C
"	10-572	AA		C
"	10-573	AA		C
"	10-574	AA		C
"	10-575	AA		C
"	10-576	AA		C
"	10-577	AA		C
"	10-578	AA		C
"	10-579	AA		C
VRS-TV2AB471J	10-313	AA		C
"	10-314	AA		C
"	10-315	AA		C
"	10-317	AA		C
"	10-318	AA		C
"	10-392	AA		C
"	10-427	AA		C
"	10-432	AA		C
"	10-468	AA		C
"	10-518	AA		C
"	10-522	AA		C
"	10-523	AA		C
"	10-524	AA		C
"	10-525	AA		C
"	13-94	AA		C
"	13-95	AA		C
"	13-118	AA		C
"	13-119	AA		C
VRS-TV2AB472J	10-437	AA		C
"	10-444	AA		C
"	10-616	AA		C
"	13-109	AA		C
"	13-112	AA		C
"	13-113	AA		C
"	13-114	AA		C
"	13-122	AA		C
"	13-123	AA		C
"	13-125	AA		C
"	13-126	AA		C
"	13-130	AA		C
"	13-133	AA		C
"	13-134	AA		C
"	13-136	AA		C
"	13-145	AA		C
"	13-146	AA		C
"	13-147	AA		C
"	13-148	AA		C
"	13-149	AA		C
"	13-150	AA		C
"	13-151	AA		C
"	13-152	AA		C
"	13-163	AA		C
"	13-164	AA		C
VRS-TV2AB473J	10-478	AA		C
"	10-507	AA		C
"	12-26	AA		C
VRS-TV2AB562J	10-580	AA		C
"	13-142	AA		C
VRS-TV2AB563F	13-99	AB		C
"	13-100	AB		C
VRS-TV2AB680J	10-280	AA		C
"	10-281	AA		C
"	10-485	AA		C
"	10-486	AA		C
VRS-TV2AB681J	10-526	AA		C
VRS-TV2AB682J	13-131	AB		C
"	13-132	AB		C
VRSTS2AD1183F	10-383	AA		C
VRSTS2AD1742F	10-482	AA		C
VRSTS2AD4752F	10-442	AA		C
VRSTS2AD8662F	10-402	AA		C
"	10-480	AA		C
VSBS108///-1	11-67	AE		B
VSDTA114EK/-1	10-289	AB		B
VSDTC114EK/-1	10-290	AB		B
"	10-291	AB		B

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PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VSDTC114EK/-1	10-292	AB		B
VSRNC1402/-1	11-68	AC		B
"	11-69	AC		B
"	11-70	AC		B
"	11-71	AC		B
"	11-72	AC		B
VS2SB1261K/-1	13-86	AE		B
VS2SC2412KR-1	11-75	AD		B
"	12-13	AD		B
"	13-87	AD		B
VS2SD1858R2-1	10-286	AC		B
"	10-287	AC		B
"	10-288	AC		B
VS2SJ106GR/-1	11-73	AD		B
"	11-74	AD		B
[X]				
XBPSD30P06K00	1-B6	AA		C
XBPSE30P06K00	1-B7	AA		C
XBPSN40P06K00	1-B8	AA		C
XEBSD30P06000	4-B9	AA		C
XEBSD30P10000	1-B10	AA		C
"	2-B10	AA		C
"	4-B10	AA		C
"	5-B10	AA		C
"	7-B10	AA		C
"	8-B10	AA		C
XEBSE30P12000	1-B11	AA		C
XHBSD30P04000	6-B12	AA		C
"	8-B12	AA		C
XHBSE30P06000	1-B13	AA		C
XUBSD20P06000	1-B14	AA		C
"	3-B14	AA		C
"	8-B14	AA		C
[0]				
0KY0C1A8S4700	15-5	AG		C
0KY0C1A9Y1020	15-13	AG		C
0KY0C1H8Q3320	15-9	AL		C
0KY0C151E1010	15-8	AE		C
0KY0C162E1040	15-12	AF		C
0KY0C245Q2240	15-3	AN		C
0KY0C251E1030	15-7	AE		C
0KY0C251E4720	15-6	AE		C
0KY0C3M1M6800	15-4	AY		C
0KY0C374D3310	15-10	AN		C
"	15-11	AN		C
0KY0D157A0060	15-20	AG		B
"	15-21	AG		B
"	15-22	AG		B
"	15-23	AG		B
0KY0D221B0020	15-24	AT		B
0KY0D251A0020	15-16	AD		B
"	15-18	AD		B
"	15-19	AD		B
0KY0D274A0030	15-25	AP		B
0KY0D461A3200	15-26	AL		B
0KY0D466A0600	15-17	AE		B
0KY0D754A4710	15-69	AK		B
0KY0D763A8R00	15-38	AN		B
0KY0H135A5R00	15-36	AV		B
0KY0H153A0020	15-35	AP		B
0KY0H723A0010	15-39	AR		B
0KY0K221B0090	15-15	AP		C
0KY0K251A0020	15-14	AK		C
0KY0K718A2R50	15-27	AM		A
"	15-28	AM		A
0KY0L113J3330	15-37	AR		C
0KY0L200C0542	15-67	BA		C
0KY0L551A0010	15-1	AE		C
"	15-2	AE		C
0KY0MPH006900	15-34	AF		C
0KY0MPS029600	15-29	AP		C
0KY0M137A0050	15-64	AE		C
"	15-65	AE		C
"	15-66	AE		C
0KY0M851A0010	15-30	AF		C
"	15-31	AF		C
"	15-32	AF		C
"	15-33	AF		C
0KY0R153U1000	15-54	AC		C
0KY0R153U1010	15-49	AC		C

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